The sound and the fury of blasted Basra

THE FIRST show of the evening is just beginning at the
ing of President Saddam
Nights of Basra. The curtain
Hussein, and generate panic in

being built nearby.

commander of Iraq's third army to use chemical weapons. He
corps, last week's relatively swears that they have out been
subdued shelling was the luli used before. opens to the sound of a scratchy Western tape and a troupe of Filipino dancers dressed in Gstrings and chiffon begin their routine. The ambiance begins to improve as the wblsky flows and the lead dancer slowly

Hussein, and generate panic in the lower Gulf states.

Basra, however, like the whole of the south of Iraq, is thick with defences; the region resembles a massive army

premier port, the city is now

The headquarters of the "imperialists," as the Sheraton Hotel has been called by the in the Northern and Ceotral Iranians, slays open despite its sectors, he says. Gen Rashid esembles a massive army 30 per cent occupancy, the amp.

Once a boom town and Iraq's supper club. Officially 300,000 people still

before the storm.
The army bas been massing sectors, he says. Gen Rashid expects the Iranians to make more use of the "remnants" of their regular troops this time. Speaking in an underground bunker 12 miles from the Iranian forces, he says he will treat the regular troops differently from the "ignorant volunteers" who form the buman waves coming across the border. Nevertheless, he adds that he is now working under the

Such barbarians can easily

be annihilated by conventional weapons. Majnoon Island, just 50 miles North in the marsh area and the scene of February's bloody battles, is now well under con-trol, Gen Rashld says. The

Twice in the evening, the lights go up without warning and Iraqi military police enter to check customers' identity papers. They are looking for army deserters, for the Ayatollah Khomeini's guns are only 18 miles away.

Basra is the Immediate prize sought by the forces of the Islamic Republic of Iran. To Iranian strategists, its capture

premier port, the city is now Officially 300,000 people still suspended in time, dusty and dishevelled. The docks have been docks have dishevelled. The docks have been everywhere and of the war, and rusting hulks of merchant ships lie in the Shattalive in the Shattalive in the Shattalive in the shattalive in the town and no refugees bunker 12 miles from the Iranian forces, he says he will treat the regular troops differently from the "ignorant volunteers" who form the bunker 12 miles from the Iranians are able to sneak into been closed since 1980 because of the war, and rusting hulks of merchant ships lie in the Shattality and the war, and rusting hulks of merchant ships lie in the Shattality and the war, and rusting hulks of merchant ships lie in the Shattality and the war, and rusting hulks of merchant ships lie in the Shattality and the war, and rusting hulks of merchant ships lie in the Shattality and the war, and rusting hulks of merchant ships lie in the Shattality and the streat the regular troops differently treat the regular troops differently in the islands only "like night treat the regular troops differently the islamic forces, he says he will treat the regular troops differently the islamic forces, he says he will treat the regular troops differently the islamic forces, he says he will treat the regular troops differently the islamic forces, he says he will treat the regular troops differently the islamic forces, he says he will treat the regular troops differently the islamic forces he says he will treat the regular troops differently the islamic forces he says he will treat the regular troops differently the islamic forces he says he will treat the regular troops

There has been no official confir-mation of prison deaths or official statements on hunger strikes, which have taken place in areas un-

Relatives of Diyarbakir prisoners went to Ankara to tell Turkish and starved themselves to death on a bunger strike that began in early

Relatives said that at Mamak military jail outside Ankara a hunger striker died this week and several others were in a critical state in hospital

The reports come at a time when Turkey hopes to improve its relations with the European Community after three years of military rule, which produced frequent criticism in Western Europe about human rights conditions in Turkey.

Reports of the fasts have not run in Turkish newspapers, which risk went to Ankara to tell Turkish and closures and prosecution if they foreign reporters that 11 inmates carry stories deemed by military courts to be against the oational in

In 1982, the then military govern-Dipiomatic sources said they had meot admitted 15 prisoners had

Lebanon conference considers concessions

By Anthony McDermott in Lausanne

A key session of the National Conciliation Conference started here yesterday afternoon, but adjourned almost immediately for private consultations on a working doce-ment making major conces-sions by both the Lebanese Moslem and Christian

The compromise involves recognition by the Christians that the confessional balance of Lebanon has changed since was held and since the un-written National Charter of

Under the National Pact, Under the National Pact, which drew on the census finding that the Maronites together with other Christian minorities formed 52 per cent of the population, the President was always to be a Maroulte Christian, the Prime Minister, a Sunni Moslem, and the head of the legislative assembly, a Shia Moslem.

The recognition by the

The recognition by the christians that the demo-graphy has changed is coupled with an acceptance that arrangements must be made to acknowledge this

In return, there has been acceptance that, as one Shi'ite (and therefore, oppo-sition) leader put it, the Christians have "legitimate insecurity fears which should insecurity fears which should be recognised and allayed."
The main architects of the document have been President Amin Gemayel, and the Vice President of Syria. Mr Abdel Halim Khaddam, officially an observer to the

Egypt-Sudan defence pact invoked after 'Libyan attack'

BY CHARLES RECHARD IN CARRO

their 1967 mutual defence pact following Friday's air attack on the Sudanese city of Omdurman, which both countries accuse Libya of carrying out.

Egyptian pilots and crews were called up and Egyptian army commanders were despatched for hasty consultation patched for hasty consultation in the Sudanese capital

The Egyptian Foreign Minister said that evidence had established that the type of bombs and planes used—a long-rang supersonic TU-22 homber (Nato designation Blinder)—could only have come from

As he pointed out, the attack bears a striking resemblance to an incident in February, 1983, when Egypt and Sudan accused Libya of planning to bomb targets around Khartoum from Al-Kuira Oasis.

The call-up of Egyptian forces with 500,000 men under arms by far the largest military power in the Arab world—is intended to deter any further attack on Sudan.

Mr Hospi Mubarak, the Egyptian President, called the raid "a mad act whose perpetrators came from an un-civilised country. He further said that whenever he received a message from Colonel Gadaffi, the Libyan leader, calling for peace talks, he knew something

EGYPT and Sudan have invoked rebels in southern Sudan. However, the external threat could be viewed as only one element in the worsening security situa-tion in the south, where rebels are fighting what they perceive as domination of the African non-Moslem south by the Arab Moslem north.

> . Col. Gadaffi has denied supporting secessionist movements, but claims he is leading the battle for unity and revolution in Sudan Some observers feel the violation of Sudan's sovereignty will further discredit President Nimeiri'a regime and aggravate hostility towards the Sudanese armed forces for falling adequately to defend the country's borders and protect the civilian popula-

Egypt is bound to ensure the security and stability of its southern neighbour for its own strategic considerations, but is wary of committing troops to a cause that is losing popularity to the stable of the stabl

Cafro had been privately cottoselling the Sudanese President to try to lessen tension in the south by opening a dialogue with southern discidents, but has had to tread carefully to avoid accusations of interfering in Sudan's internal

a message from Colonel Gadaffi, the Libyan leader, calling for peace talks, he knew something was brewing.

President Nimeiri of Sudan might interpret the raids as U.S. have said Washington and Calpart of what he sees as attempts to were considering an emergency by Libya and Ethlopis to airBit of military squipment to the destabilise the country by aiding

A WAVE of near euphoria has noted that last Friday's lo drought-stricken areas furswept white South Africa over the past few days, following last the past few days, following last Friday's signing of the bistoric the result of circumstances such said they are investigating Friday's signing of the bistoric non-aggression pact between Prime Minister P. W. Botha and

Convinced that the accord with Mozambique will be followed by similar peace moves in other parts of the sub-continent and growing economic co-operation between South
Africa and its black-ruled
nelghbours, most white South
Africans are hrushing aside—at least for the time being-warnings that rapprochement with the country's internal problems. The pact has made little, impression on blacks and has been relegated to the inside pages of the country's main black newspaper. At the same Mozambican state radio

as economic problems and the activities of anti-Government rebels backed by South Africa. Pretoria has acted quickly to

show Mozambique and other countries the benefits to be gained by scaling down support for guerrillas of the African National Congress (ANC). The Right-wing radio station sup-porting anti-government rebels in Mozambique, wblch is widely believed to operate from the northern Transvaal, suddeny an-nounced last Thursday that it is closing down for "re-organisa-

The South Africans have donated six tons of medical sup-plles to Mozambique as aid for flood victims in the southern part of the country and bave offered 25,000 cartons of apples

A number of businessmen said they are investigating opportunities in Mozambique in fishing, holels and other sectors. A mission of the Mozamblean Railways visited Johannesburg last week in an effort to en-courage more South African companies to route their im-ports and exports through the

port of Maputo. Our Foreign Staff adds: President Jose Eduardo dos Santos of Angola arrived in Havana on Salurday for talks with Cuba's President Fidel Castro which are expected to centre on the future of the 25,000 Cuban soldiers in Angola.

Most members of Cuba's

ruling Politburo were on hand to welcome the President, whose visit is taking place amid growing doubts over Cuba's role in-the former Portuguese colony.

S. Africans expect further pacts Turks fast to death

AS many as 12 people have fasted firmed reports said a further four to death in Turkisb jails over the bad died. Another report said the to ceam in Turkisb jails over the past few weeks in protests against prison torture and bad living conditions. Diplometrations tions. Diplomatic sources and relatives said the biggest hunger strike so far was in the military prison in the south-eastern city of Diyarbakir where most inmates are Kurds accused of separatist mil-

der martial law.

confirmed seven hunger strike died under torture but said it was deaths in Diyarbakir while uncon- taking steps to stop it.

Fighting flares again in Beirut

BEIRUT - Rival Christian and Mos- to residential areas in both East lem militias traded rockets; mortars and machine gun fire in and around Beirut yesterday as reports surfaced that France had tentatively agreed to help separate the warring

Battles between the militiamen raged at midmorning along the Green line dividing Christian East and Moslem West Beirut, but the fighting then eased back into sporadic exchanges.

The renewed hostilities came one

day after the most serious viola-tions of the ceasefire proclaimed said. There was no report of any tions of the ceasefire proclaimed

hoods in central Beirut and deep in- in southern Lebanon:

and West Beirut, and in the Shiite Mosiem populated southern sub-Police said at least 15 civilians.

were killed in the weekened exchanges, including four Palestinian refugees at the Chatilla camp south of the city, and 45 other civilians

In Beirut yesterday unidentified jets made recommissance flights over the capital and the central mountains, drawing anti-arms it aircraft being hit.

The Christian "Voice of Lebanon" radio Station said christian fighters of the "Lebanese forces" militia in the coastal villages of alve and Bourjeinere engaged in rocket-pro-pelled, grenade and machine-gun duels with Druse militiamen in Si-

In Israell-occupied southern Lebanon, a toadside bomb exploded as an Israeli patrol was passing east of the Port of Sidon, wounding up to four Israeli soldiers, Belrut Radio reported - 17 to as

The state radio said another roadside bomb exploded near an Israeli patrol close to the inland market The ceasefire was severely Fighting was reported in the town of Nabatiyeh southeast of Sid-strained on Saturday when shells slammed into Green line neighbor-defence line along the Awali river ports of casualties. AP

U.S. withholds Nigeria credit

having an agreement.
"We have had some indica-

tions that they will do every-thing possible to ensure that such an agreement will be

reached agreement with the

THE U.S. Government is withholding some \$70m (£50m) in
credit promised to Nigeria for
wheat purchases, pending an
agreement with the International Monetary Fund on an
economic stabilisation programme. Dr Ibrahim Gambarl,
Nigeria's Foreign Minister, said
yesterday.

"We are not happy with
"We would like to have an THE U.S. Government is withlinking everything to the

yesterday.

"We are not happy with what the Americans are doing," he said in London, "They are

Strike hits 10 ports in India

THE INDIAN Government took an anxious assessment yesterday of in-ventories of imported goods on which the country depends as the near-total strike by more than 300,000 dockworkers paralysed the 10 majors ports for the fourth suc-

cessive day.

The buffer stocks of foodgrains, fertilisers and cooking oil were said to be sound, while the navy had been asked to help in unloading crude and petroleum goods from tankers to keep coastal refineries in Officials said yesterday that no

immediate shortages were feared but it was apparent that a pro-longed strike could seriously harm the economy, particularly by eroding foreign exchange earnings from exports. These are needed to close the Rs 50bo (\$4.7bm) annual trade

gap.
The Government has described the strike - called by the port workers' four national federations - as illegal on the grounds that conclina-tion proceedings were still in progress when it began last week.

There is as yet no move for fresh talks with the dockers leaders on their demands for a 30 per cent rise in wages compared with the 15 per cent the Government is willing to concede. It is possible that a move to end the deadlock will be made The strike is the biggest since the

Congress(I) Party returned to power in 1980 after the two-year abortive strike that crippled the Bom-bay textile industry. This fizzled out last year.

negotiating with the IMF on a Dr Gambari, who held talks three-year programme which yesterday with Sir Geoffrey would provide standby credits Howe, bis British counterpart, of between \$2.5bn and \$3.2bn. However, the talks have been held up because of disagree-ment, particularly over the question of devaluation of the

Dr Gambari said IMF terms must be "socially politically and economically acceptable" "We would like to have an agreement with the IMF," he said. "We believe Western to the new military government in Nigeria.

Meanwhile, the Government governments are even more interested than ourselves in our

Meanwhile, the Government was looking for alternative sources of finance, Including the Saudi Government, and an increase in its oil production quota fixed by the Oreanisation

reached."
However, Dr Gambari said the U.S. Government was withholding the balance of a \$100m line of credit for wheat purchases, agreed with the former Nigerian regime. Specifically until the new government had agreement with the Countries. FINANCIAL TIMES, USPS No 18060, published deily except Sundays and holidays. U.S. subscription rates \$420.00 per Annum, Second class postage paid at New York NY and at edditional mailing offices. POST-MASTER: send address changes to: FINANCIAL TIMES, 14 East 60th Street, New York, NY 10022.

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SEEM

TODAY'S EEC SUMMIT

By Paul Cheeseright in Brussels

years of argument on which institution of the EEC should decide on the defence, when it is necessary.

The new common Commercial Polley Instrument, as it is cal-led, is designed to provide a quicker response in trading dis-

gnicker response in trading disputes where EEC countries or
the companies within them
feel they are not able to compete equally.

The model most frequently
cited is the U.S. Trade Act
which provides a means for
U.S. companies to petition for
Administration—action against
other countries when they are

other countries when they are thought to be competing unfairly.

The idea of an EEC instru-

ment was advanced by France in 1982, but negotiations quickly

bogged down on whether the European Commission or the Council of Ministers should

have the right to initiate action.

part of the negotiations, just reached by officials of the Ten and now to be defined in a legal

ctions of others, such as export

subsidies or the freezing of

TEC companies out of public sector markets, the procedure

The conclusion of the main

voked

Times Monday Mardy

Unfair trade defences to be stiffened

Services of the services of th Control of Cil Grad R

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France outlines basis for global agreement

A DOCUMENT setting out the basis for a global agree-ment at today's EEC summit was sent to national capitals late on Friday by France, act-ing in its cancelly as Beach ing in its capacity as President of the EEC's Council of Ministers. THE EEC is stiffening its defences against the unfair trading practices of its competitors. A last-minute political agreement before the summit has resolved nearly two

The introduction sets out the goals of the Community
These are a modernised
agricultural policy, increased
convergence between memher states, enlargement of EEC on satisfactory terms and priority moves to strengthen industrial com-

The proposal seeks agreement by the end of Jnne on new forms of EEC co-

operation in telecommunications and biolechnologies. It calls for increased symding on research and develop-

The new policies section aims at the achievement of a "true" economic nulon, through greater economic convergence, industrial co-nperation and strengthening of the Common Market. Specifically, it seeks agreeme of harmonising production norms, the progressive liberal-

isation of services (including insurance and troosport) and a common transport policy. seeks further work on adapt-ing the Enropean Monetary

System (EMS), greater use of EEC berrowing to finance investment and progress lowards "better" financial iniegration.

After listing outstanding farm issues the proposals calt for a more efficient use of the EEC's siructural funds so as to avoid duplication of spending and their combination in the form of integrated Mediterranean programmes.

Spending on all structural funds should grow "substantially" in real terms. September 30 is set as the target date for completing the accession negotiations with Spain and Portugal.

On budgelary discipline the

proposal says the Council of Ministers should set each year, as "a point of refer-ence," a figure for the growth of EEC spending. On Budgetary imbalances,

Jargon for the Brilish hudget problem it says that entitle-ment to a reduction is hudget payments should be deter-mined by relative prosperity as should the size of any reduction. But no member Stale should be exempted from paying for locreased EEC spending.

Reductions would be achieved by lowering a

member State's transfers of value added tax and enstoms

EEC farm deal: cause for muted celebration

THE WEEK which ended in nity might have "broken saving has been turned into an applied more generally wherebleary-eyed satisfaction at mid- asunder." day on Saturday was a highly nnusual one for EEC Agricul-ture Ministers, Accustomed during the past 15 years to distri-buting largesse to the Community's 9m farmers and to buying each other off with special little programmes of to one country or another, the Ministers this time reached provisional agreement on a package imposing some painful sacrifices on their agri-

ann now to be denned in a segat cultural industries.

compromise suggestion and falls into two parts.

Where the EEC has to respond to the legal trading an important contribution to actions of others, such as seeking compensation for lost tariff ment at today's summit in Erussel left them with little ment at today's summit in Brussels, left them with little

quantative restrictions, the council takes the decision to act by qualified majority.

With the illegal trading ledged as much on Saturday. As President of the Council Ministers he had kept his col-leagues up all night and pushed

The state has resisted the temp-

tation to introduce children too ear-

ly to computers for fear it weakens

mathematicians.

teachers face advanced training be-

More computers will have to be

bought for schools and the state en-

visages they will cost between DM 10m (\$3.84m) and DM 20m, a bur-

den that will fall largely to local

community authorities.

Herr Mayer-Vorfelder cautioned

against any "computer euphoria"

fore being let loose on classes.

It was wise of him not to apply a more extravagent rating to the achievement. By sispping curbs on milk production, cutting prices on a number of products, and limiting price guarantees on others, the Ministers have changed the shape of

the future. But they bave failed to respond to the imperatives Imposed by the 16.5hn European currency units (£10hn) farm hudget. As a result, the Ten around 170m ecu. may have to find another 2.5hn ccu for agriculature before the end of the year, despite the fact sters agreed to price freezes on that overall EEC spending is durum wheat, rye and sugar flat up against the maximum legal limit on revenues that member states can sunply The financial impact of last

unclear, Overall, the European

Commission's price and CAP

reform proposals were meant to save 875m ecu this year. This

making It more economical in

wars from the Ministers' in-ability to agree on a revenueraising oils and fats tax (worth 600m ecu in o full year) partly because the milk quota arrange-ments are less economic than the Common Agricultural Policy (CAP) and created the basis for expected solution to phasing out Monetary Compensatory

> (instead of 1 per cent cuts on rye and sugar as proposed by M Rocard) and I per cent reduc-tions on a range of other producis including olive oil, table

additional cost of 610m ecu this ever production moves into year and 826m ecu next year. surplus or where output is The extra costs derive in some rising to such an extent that it is likely to lead to a heavy Increase to expenditure.
As well as having to deal with

from the milk quota and some aspects of the MCA solution, those proposed by the Commist he summit may also have to try sion, and parily because the to remove one of the UK's reserves oo the farm package concerning the removal of the Amounts (border taxes and variable beef premium. This subsidies) will cost at least bridges the gap between market 400m ecu when the Commission was looking for savings of costs which are higher,

Mr Michael Jopling, the UK's In their final session on farm minister, also withheld Friday and Saturday the Mini- approval for the package on the grounds of its cost haly (olive oil) and Greece also reserved The Ministers will meet again

oexi Monday and Tuesday in the hope that the summit will wines, beef and pig meat.

In addition, the Ministers endorsed the prinicple that guarantee thresholds will be thresholds will be thresholds will be thresholds.

Throughs for them to tie up outstanding details on the most unusual package in the history guarantee.

Sounds surprising?

Please judge us on the facts.

French Catholics plan fresh campaign on private schools

BY DAVID HOUSEGO IN PARIS

CATHOLIC parents teachers' associations in France were preparing at the weekend for a fresh campaign against Government's decisions on the future of private schools. M Alain Savary, the Minister

of Education, announced the decisions late on Friday night. They are to be published as a draft law today or tomorrow.

The Government has backed down, to the indignation of the state school lobby, over many

assimilate The Catholics maintain that endowing private school reachers with the same status of public employees as those in the state sector would

ultimately rob the private schools of their specific character. compromise at its meeting last over the future status of private Wednesday in the knowledge school teachers. But while they

assimilate private school could afford to sland firm on leachers into the state system. one point having angered its

one point having angered us own followers by hacking down on so many others.

Two weeks ago sinic 800,000
people took part in a mass rally in defence of the private schools at Versailles.

altimately rob the private specific tharacter.

The Catholic organisations gave a reserved welcome to M Savary's concessions and were critical of his decisions of the points in dispute, but it that the Catholics might unleash talked of a fresh campaign, they has held its ground over a further campaign. But the also left the door open to a proposals that would partially Cabinet equally felt that it further compromise.

Norwegian leader 'will discuss Statoil status'

MR KARE Willoch, Norway's Prime Minister, has said be would be glad to discuss with the main opposition Labour Party his Government's plans for a change in the status of Statoil, the state oil company.

He agreed it would be valuable if the discussions could produce a compromise which both sides were able to accept. The Government is committed to reducing the company's present powerful role on Norway's ecotinental shelf. The Prime Minister was replying

to a letter from Labour's national executive offering to examine ways in which parts of Statoil's income might io future be channelled directly to the state. The day the letter was published Labour leader Ms Gro Harlem Brundtland and former Industry Minister Mr Finn Kristensee told a press conference a compromise between Government and opposition over Statoil was in the country's interest. Without it, they pointed out, Norway could slip into a situation similar to that in Britian, with the state oil company's the easter recess.

status coming up for revision every time there was a change in the Storting majority. Ms Brundtland and Mr Kristen

sen said that while Labour was prepared to consider some adjustments in the share of Statoil's earnings that the company was allowed to retain, it could not countenance any change in Statoil's special posihon as an instrument for imple menting national oil policies.

Mr Kristensen said: "We shall never agree to proposals that would reduce Statoil to an 'ordinary' oil company on a level with Norsk Hydro and Saga. Statoil is, in our opinion, the most important oil policy

Ms Brundtland said if the Prime Minister accepted Labour's invitatioo to talk, she hoped the discussions would take place before the Government tabled its planned white paper about Statoil, based on the recommendations of a royal commission which reported early last year. The paper is due before

Hong Kong meetings accelerate

By Robert Cottrell in Hong Kong

BRITAIN and China have accelerated the pace of their negotiations on the future of Hong Kong. Fol-lowing the tenth round of talks on Friday and Saturday, an eleventh round is to be held on March 26-27. Previous rounds have been spaced at three-to-four-week intervals.

The increased tempo appears to reflect China's desire to finalise an agreement by September at the lat-est, while Britain is sensitive to pressure from both Hong Kong and the British parliament to make some public statement of progress in the so-far confidential talks.

Such a statement may be forthcoming when Sir Geoffrey Howe, Britain's Foreign Secretary, visits Hong Kong soon - possibly next month. The weekend communique described the tenth round of talks as "useful and constructive," the stock formula used to describe almost all the proceeding rounds.

Schools take first bite at computer studies

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CERTAIN BUSINESS TRIPS

SEEM TOO SHORT

sium schools.

BY JOHN DAVIES IN FRANKFURT

ALL SCHOOLCHILDREN in the pecially in the more elite Gymna-West German state of Baden-Würtiemberg are to be taught about computers - just as soon as enough teachers can unravel the mysteries

the traditional stress on reading.
The state has decided to intro- writing and arithmetic. It has also duce computer studies as an inte-rejected the idea of creating n new gral part of mathematics and of oth-subject of fundamentas. er technical subjects such as phy-

We want to de mystify the comters progressivley from next year puter," said Herr Gerhard Mayer-Vorfelder, Education Minister. Baden-Württemberg prides itself on being in the forefront of new

technology, a favourite theme of Herr Lother Spath, the Premier, who faces a state election on March 25. His state is always jostling with its burly neighbour, Bavaria, for the honours of attracting research and production in high-technology

It claims to be the first West German state to bring in computer studies for all children, although, as in other states, some children already have access to computers, es**Default problem** for Costa Rica By Peter Montagnon, Euromarkets Correspondent

COSTA RICA's bank creditors have been lold that the country's failure to raise emer-gency short-term loans means that "occasional situations of default" could now occur nu its \$4bn foreign debt because

of a squeeze on its foreign exchange tash flow. The warning came in a telex to bank creditors from But all children in class 9 - aged Bank of America, which chairs the committee of leadabout 15 - will learn about compu-Earlier this month, the com-One hitch is that of the state's mittee reported that Costa Rica would seek short-term 100,000 teachers, only about 4,000, assistance because delay in reaching agreement with the enough about computers to teach International Monetary Fund had resulted in a shortfall in Over the next four years, 18,000

foreign exchange receipts.
Now the committee has been told by Dr Carlos Manuel Castillo, president of the Central Bank, that Costa Rica had failed to nbtain eredit from the U.S. Govern-ment and from the Bank for International Settlements from which it had planned to seek a \$50m loan.

percial banks are also refusing emergency finance, although a team of economists from the committee is expected to visit San Jose soon to examine needs for extra funds after the IMF agreement is reached. This is expected in be in mid-April, allowing disbursement of U.S. Government aid in resume before the beginning of May.

Basque trawler crews defiant

By Tom Burns in Madrid THE TWO Basque trawlers which were at the centre of a serious diplomatie incldent after being detained by France for fishing without permits in the Bay of Biscay returned to their bome port of Ondarcon at the weekend with 15cl crews unrepresentant of Ondarron at the weekend with their crews unreprentant and determined to continue fishing in the restricted French zone.

The Valle de Atxondo, which was shelled by a French patrol boat 140 miles off the creek of French are Vallence of French at the control of French a

pairol boat 140 miles off the coast of Brest on February 7, docked on Saturday together with its sister ship Burgoamendi to a tumnitnous reception. The skippers of both trawlers were last week fined \$15,000 each by a French court on charges of fishing litegally.

Sr Jose Maria Arsola, captain of Burgoamendi, said be had every intention of returning to the restricted 200-mile French zone of the European Community waters

WORLD ECONOMIC INDICATORS every Monday-Only in the

Financial Times

"Northern Ireland's skills and dependability are vital ingredients for our competitive edge."

Norman Mischler, Chairman, Hoechst U.K.

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Fact 2

Luckily, the good news about Northern Ireland's high productivity travels almost as fast among some industrialists as bad news does in the media, which perhaps explains why 100 plants have set up almost unnoticed in Northern freland in the last 10 years. European companies, like Hoechst, STC and Philips, have joined many successful American companies, including Du Pont and General Motors, in judging Northern Ireland on its merits. They are delighted with the results.

Sailing, Belfast Lough

Fact 3 A technically gifted workforce and a unique relationship between unions and management results in consistently good industrial retations and productivity. For example, in 1982, an average of less than one hour per man per year was lost due to industrial disputes of any kind.

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Sailing in Northern Ireland's coastal waters is only one of many leisure activities enjoyed by foreign executives and their families. In fact sailing is an extremely competitive sport in Northern Ireland with regular racing and even flotilla cruising to nearby Scotland, Isle of Man, England and Wales. Often executives and their families like the lifestyle so much that they are reluctant to return home even to accept promotion.

Fact 7

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Alitalia plans flights to U.S. **West Coast**

ALITALIA, the Italian state airline, plans a major expansion of its North Atlantic services, including the introduction of four weekly flights from Italy to Los Angeles.
These will be the first direct

flights from the Mediterranean to America's pacific coast, the airline said at the weekend.

The expansion of North Atlantic routes, which are expected to account for L400hn (£170m) of the airline's 1984 turnover, itself predicted to rise by 15 per cent to L3,000hn, will enclode the restoration after two years of flights to Boston and additional services to New York Capacity wil be increased by 26 per cent on these routes. The new flights are expected to result in an initial decline in the airline's load factor on north Atlantic routes—the percentage of seats filled per air-craft from 71.2 per cent to 65.4 per cent in 1984.

Alitalia said that its international traffic last year, in line with the rest of the indusry, registered zero growth. But international traffic bas been up by eight per cent since the beginning of this year.

The airline said its South American business bad been hit various debtor countries. Funds have been blocked and delayed in several countries. Traffic from Venezuela was "in sharp

Alitalia is considering ordering up to 30 new 150-sector aircraft for delivery in the 1990s. The Airbus A-320 is strongly in the running, but no decision has yet been taken, a senior execu-tiva said. The airline is await-Among the recent deals was a ment during the week, coming the outcome of talks between Boeing and Aeritalia, the state aircraft company, over possible collaboration in a new aircraft in which Japanese companies would also be involved.

Among the recent deals was a ment during the week, coming the outcome of Japan at pared with only four the previous week. Most were of the similar size to the U.S. Gulf at around Worldscale to an increase in large tankers around worldscale to an increase in large tankers waiting for over two months outside the Gulf.

David Marsh travels the French route to a multi-billion dollar deal-

On the inside track to Florida

plush window seat after taking 2 VIP ride in the drivers' cabin of France's high speed

Zooming through the country-

side between Paris and Lyon, he was talking during a 160 mpb trip, plus slap-up lunch, laid on to extol the technological delights of the French TGV (Train de Grande Vitesse) system. The trip is so smooth that the driver can nonchantly combine manning the controls and sipping a Kronenbourg beer without spil-

Florida is expected to decide Graham, of econo Graham, over the next 12 months whether to choose the TGV or the slightly slower 130 mph would manuficially believe train in a sidies a multi-billien dollar contract for financed Japanese "bullet" train in a sides and would be pertly multi-billien dollar contract for financed by revenue from coma planned high-speed rail link between Miami, Orlendo and around stations. Detween Mami, Oriendo and Tampa. SNCF, the French railways, and the country's mein railway equipment manufecturers were trying to convince the officials from the U.S. state that the TGV would do the job best.

Mr Graham, who rode the Trival Japanese "bullet" in Sepcial tember, did not want to pre-

SHIPPING REPORT

on the U.S. high speed train market three years after the Japanese started marketing their system—seems to have e major chance of clinching the

deal. State officials said they were "not comfortable" with aspects of the rivel's financing plan. The Japanese have offered Florida a network with a more expensive concrete-borne track costing an overall \$3.5bn, compared with the TGV offer worth \$2bn. "The ultimate question is one of economic viability, said Mr

The Floridans are also impressed that the French offer would make no call on U.S. sub-

SNCF says the Paris-Lyon link, which comes into full service this year will make around FFr 700m (£59m) net profit this year after operating costs, de-precietion and financial charges,

on receiots of FFr 4bn.
The prospect of a good financial return has even tempted the Swiss-based Compagnic

THE STRENGTH of the Middle

East tanker market, buoyed two
weeks agn by the Iran-Iraq war
—has proven short-lived. Charterers were able to reduce rates
considerably last week.

Among the recent deals was a

MERONG ten extent deals was a

Acceleration of inquiries. A

the end of March from Kharg

95,000 ton cargo from Turkey to
the French Mediterranean was
completed at Worldscale 64.

Lioyds has reported another
increase in total idle tanker tonnage. At March 1, it consisted

From

4th April,

Cathay Pacific

willflyfrom

Frankfurt to

Hong Kong

Middle East tanker market declines again

nage. At March 1, it consisted of 1,681 vessels of 82.7m tonnes

"IT WAS FANTASTIC. A judge the outcome of the state's Financiere of the Rothschild As the head of the French great experience," heamed Mr selection process. But provided family to approach the Floring consortium TGV Co since Bob Graham, the Governor of the Florida project is given the florida, settling back into his go-ahead this summer, France—the important question of up campaigning around the U.S. The state of the florida project is given the important question of the TGV to hit back at entrenched the florida project is given the important question of the Florida project is given the important question of the Florida project is given the important question of the florida project is given the important question of the Florida project is given the florida project is given the important question of the Florida project is giv dans with e funding offer. Un the important question of up campaigning around the U.S. "Americanising" the TGV to hit back at entrenched offer, Mr Graham said the French had been more extensive in drawing in other participants in drawing in other participants of the project. The last to Houston, Los ington, Dallas to Houston, Los Angeles to Las Vegas and The French rail equipment

group, beaded by Alsthon Atlan-tique, has included the U.S. Westinghouse electrical group in its plans for the Florida link. Colombus to Cincinatti. The Japanese "bullet" consortium has won a contract to build e Los Angeles—San Diego This follows the U.S. company's involvement in the French rail link But, says Mr Blanchette, "We represent the cutting edge industry's clinching of two big metro contrects in San Franof technology — nobody comes ahead of us." Claiming that the cisco and New York in 1982. TGV is a generation ahead of the bullet, he declares: "Each Pan American Airways has

winner."

The French know that psychological as well as technological weapons are needed in the battle to reverse the finencing package.

you are efforts in the U.S., Alsthon last efforts in the U.S., Alsthon last yeer plucked Mr Robert will be wooed on the Paris-Lyon line this summer, and Mme ton government circuit. Mr Blanchette, a U.S. lewyer formerly with the Federal Rail Administration is gravel-voiced, blingual and even looks 1922.

In the sale and purchase mar-ket, Galbraith's said several

Panamax bulk carriers were the subject of negotiations, but it eppeared that the only vessel actually committed was the Sante Barbara Maru of about

62,300 dwt built in 1972 and selling subject to inspection for close to \$5.5m. A 118,000 dwt carrier huilt in 1977 was said

tn ha receiving offers around

Sun shines on French negotiations with Fuji

Fuji Electric Company of Japan has signed a solar technology agreement with the joint solar energy subsidiary of two leading State-centrolled French companies, Compagnie General d'Electricite (CGE)

The latest agreement thus appears to be likely to strengthen their position in the sector in which Japan and the U.S. are considered to be the most advanced.

France currently claims 16 per cent of the world market for photovoltaic arrays (or hatteries) with sales last year of FFr 100m (£8.6m). Eff, the French State-controlled oil group, and CGE, the nationalised diversified

Electric car down the road

The West German subsidiary of Brown Boverl, the Swiss-based electrical engineers, has taken a step forward in its electric car project by signing a cooperation deal with a Canadian company.

The pact with Magna International of Toronto envisages setting np a joint company to supply parts for an electric

1580s.

Brown Boveri has been aiming to develop electrical parts for a four-seater ear with a range of 155 miles

and Elf Aquitaine.
The accord between Fuji
and Photowatt, the CGE and Elf solar subsidiary, involves a research, development, manufacturing and sales agreement in photovoltaic cell-technology and in the deve-lopment of ribbon crystal and amorphous technologies.

Photovoltaic technology

involves the conversion of sunshine or sunlight or both into electricity. The French Government and the main French industrial groups in the energy sector have recently decided to concentrate their solar energy efferts on photo-electric or photo-

electronies conglomerate, pooled their photovoltaic interests last November.

The principal French com-panies involved in the sector are the nationalised Rhene-Poulenc chemicals group, involved in the development of silicon fer photovoltzic cells, CGE and Eff in the Photowatt subsidiary; the Total oil group in partner-ship with the nationalised St Gebain conglomerate; and the Leroy-Somer electrical group.

The French five-year photo-voltaic programme envisages investments in this sector of FFr 1.4bn with about FFr 480m being supplied by

further

By Our Frankfurt Correspondent

supply parts for an electric car for North American markets. Brown Boveri said that the move was tentative and that no time scale had been set for founding a

company.

It said that Magna Inter-national, which supplies parts to North American car manufacturers from plants in the U.S. and Canada, would have a majority stake in any joint company.

Brown Boveri has been carriers out development.

carrying out development work on an electric car for ten years and foresees further lengthy research and tests. lengthy research and tests.
But Dr Herbert Gassert, chief executive of the German subsidiary recently expressed optimism about the project, declaring that series production of the eletrical parts for such a car might be possible in the second half of the 186s.

Brown Boyert has been

Japanese typewriter company considers **European production**

BY JOHN DAVIES IN FRANKFURT

Japanese office equipment con-cern, is considering setting np a plant in Europe to assemble electronic typewriters. Herr Harald Rudloff, head of Brother's West German opera-tion, said the plant might be ser up in England, Scotland or Ire-land, with West Germany rather

less likely to be chosen.

He said that the Japanese parent company was investigating a possible European production operation to overcome delivery delays resulting from in-creased demand. Herr Rudloff, criticised the complaint lodged with the European Commission in Brussels by local typewriter manufacturers, who allege Japanese electronic typewriters are being imported at dumping

rices.

He denied that his own comany was involved in dumping,
adding: "If the European Commission holds a dumping inguiry, we here nothing to fear."
Brother has about 10 per cent
of the West German market for mechanical typewriters and about 25 per cent of the local market for compact electronic

typewriters.
Herr Rudloff said all Japanese companies had only a small market share in office elec-

market share in onice alec-tronic typewriters—as opposed to the compact variety—and in the more traditional electro-mechanical typewriters. Brother, which has been steadily building up sales in West Germany for more than 20 mechanical typewriters.

Brother, which has been ducts with the knowing use of steadily building up sales in personal and office computers.

West Germany for more than 20 Brother produced, and sold years, expects a sharp increase mearly Lim typewriters world of 50 per cent in its sales re-wide in 1983, giving it close to yenne to between DM 90m and 15 per cent of the world market.

BROTHER INDUSTRIES, the DM 100m (\$22,225m) this finan-Japanese office equipment con-cial year. Typewriters are ex-cern, is considering setting up pected to account for about 75

per cent of revenue.

Brother is moving increasingly into computer peripherals and plans to introduce four new models of computer print out devices at the Hamover Exir next month. It Jurisees increased demand for such pro-

West German

West German

Video parts plan

Robert Basch, the West
German automotive parts and
electrical concern, is could
exing louding Manusching of
Japan in a new venture in produce components for video
cassette recorders (VCRs)
and colour TV sets John
Davice writes.

The two companies are
already partners in assembliing VCRs of the VHS format.
Maturchita now envision producing VCR and TV components at their Oakrade after by
next September: Basch is offiing to lease prequises, but has
not yet decided whether to
take a stake in the nomible
venture.

Bosch has a 25 per cent

venture.

Bosch has a 35 per cent stake in the VCR assembly operation and flatunitis helds the remaining \$5 per

WORLD ECONOMIC INDICATORS UNEMPLOYMENT ...

UK 000s	Feb. 34	ian. 24 I	Dec. 23 Feb. 3.079
%	13.4 3.801	13.4 9.826	12.9
U.S. 000s	7.4	8.6	* 8Z 10
Japan 000s	1,485	Dec. '93 1,430 2.6	lov. 83 Jan. 1,520 1,8
W. Germany 000s	2.7 2.539 2.4	2.349	2193 24 8.1
France 000s	2.252	2227	2.223 - 2.3
Netherlands 000s	262.7 15.4	255.6 . F.	
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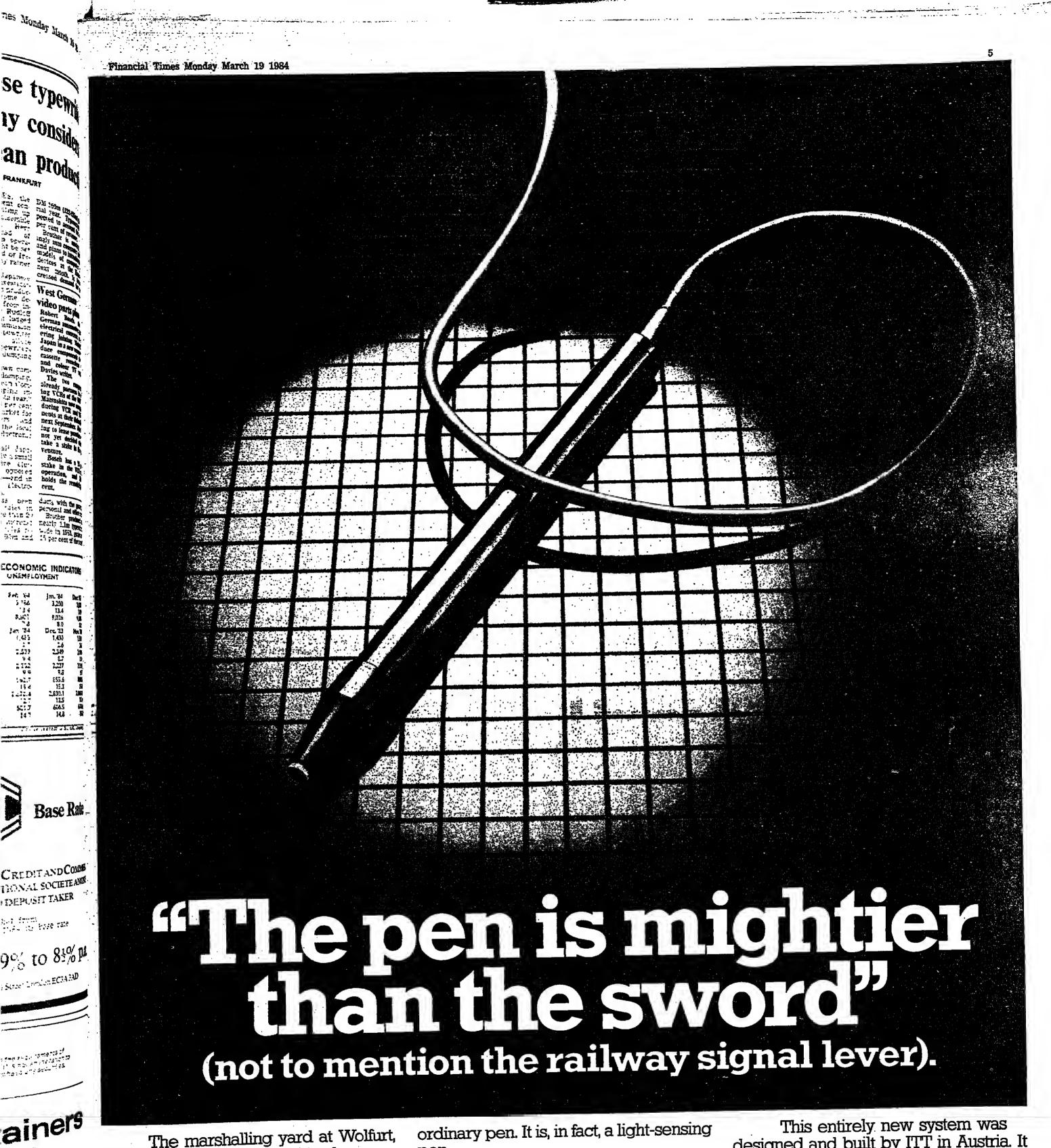
*Executive Travel Magazine Survey

FOR THE MODERN MARCO POLO. CATHAY PACIFIC:
The Swire Group # 4

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The marshalling yard at Wolfurt, Austria, serves a particularly dense rail crossroads between Switzerland, Germany and Austria.

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UNEMPLOYMENT

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Thirty kilometres of track are controlled by 92 points and 227 signals.

The points and signals are controlled not by levers but by a computer.

And the computer is controlled by apen.

As you might suspect, this is no

ordinary pen. It is, in fact, a light-sensing pen.

Instead of keying commands into the computer in the conventional way, operators simply touch the railroad layout symbols on the computer's two video display screens with the light pen.

The computer checks that the proposed move is feasible and safe, then sets up the programmed path, changing points or working signals as necessary.

This entirely new system was designed and built by ITT in Austria. It has now completed its trial year for the Austrian Federal Railway and further orders have been placed.

Which is good news for Austria's railways.

Not to mention ITT's shareholders.

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Ebic banks, offer specialised services throughout the world.

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Then there's European Asian Bank (Eurasbank). Headquartered in Hamburg, it has branches in Bangkok, Bombay, Colombo, Hong Kong, Jakarta, Karachi, Kuala Lumpur, Lahore, Macau, Manila, Seoul, Singapore and

> Ebic banks also have important participations in European Arab Bank in Brussels, Cairo, Frankfurt, London and Manama (Bahrain), and in Euro-Pacific Finance Corporation in Brisbane, Melbourne and Sydney.

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FT COMMERCIAL LAW REPORTS

U.S. metal fraud case can proceed

ALCI METALS (LONDON) LTD METALL UND ROHSTOFF AG AND ANOTHER

Court of Appeal (Lord Justice Ackner, Lord Justice Purchas and Lord Justice Parker): March 13 1984

WHERE A change of circum stances follows the grant of an injunction to restrain concurrent foreign proceedings and removes one of the major disadvantages of those pro-ceedings, an appellate court may reassess the balance of advantage and disadvantage as between the litigants, and should set aside the injunc-tion if its retention would lead to a preponderance of disadvantage to one party over advantage to the other.

The Court of Appeal so held when allowing an appeal by ACLI Metals (London) Ltd from Mr Justice Staughton's order restraining it from proceeding to New York against Metall und Robstoff AG (M & R) and Associated Metals and Minerals Corp (AMMC).

LORD JUSTICE ACKNER said that M & R, a Swiss corporation, traded in eluminium metal, and ACLI, an English company, was a ring-dealing member of the London metal exchange. AMMC a New York company, was the parent company of M & R.

It was alleged that a massive fraud was conceived and directed in New York by officers of AMMC, which resulted in milious of dollars of tosses to

An English action was begun by M & R, arising from the buy-ang and selding of aluminium by M & R through ACLL ACLI served a defence and a ACLI served a detence and a counterclaim. On October 11 it commences an action against AMMC in New York. The claim covered substantishly the same matters as were alleged to its counterclaim in the English

On November 1, AMMC served notice of motion in the New York action for an order that the romplaint be dismissed on the ground of forum non con-

on November 3 M&R issued a summons in the English Commercial Court for an injunction restraining ACLI from prosecuting the New York action. It also asked for an order that AMMC be added as a defendant to the counterclaim.

On November 25, AMMC issued a writ against ACLI claiming a declaration of non-liability to ACLI and a summons for an injunction against ACLI.

Thus, on November 30, when Mr Justice Staughton began the hearing of the summonses, there was a multiplicity of proceedings. The nature of the New York dispute was virtually a mirror image of the dispute in the content of the Tradition in the Evolution in the Evolution in the State of the s the counterclaim in the English

ACLI could have joined Alfiect as an aditional defendant to its counterclaim. It did not choose to do so because it considered

that in respect of a fraud-allegedly conceived and directed-in New York by a New York-corporation, it was more in its interests to sue in New York.

in New York by a New York corporation, it was more in its interests to sue in New York.

Mr Justice Stanghton granted an injunction sought by M & R to restrain ACLI from continuing the New York proceedings, It was against that decision that ACLI now appealed.

Mr Justice Staughton properly directed himself as to the law in the following respects: that to justify the grant of the injunction it had to be established that ACLI was amenable to the jurisdiction of the English court and that justice could be done there at substantially less inconvenience; that the injunction would not deprive ACLI of a legitimate personal or juridicial advantage which would be available to it in the American proceedings that the jurisdiction to restrain proceedings abroad was to be exercised with extreme caution; and that the principles governing the exercise of the court's discretion were the same whether the remedy southt was a stay of English proceedings or a restraint on foreign proceedings.

The judge said that English courts were the natural forum. He was satisfied that instice could be done in the UK at substantially less inconvenience and expense than in the U.S.

He concluded that the causes of action available to ACLI in New York were not more extensive than in London; that there was no difference in the standard of proof between England and New York; and that punitive damages were available in England, as they were in New York. Therefore, he decided, there were no substantive advantages in hearing the case in New York.

in New York.

His conclusion that ACLI had an undoubted right to claim punitive damages in the English proceedings was criticised by ACLI,

There was no decision directly in point, but it was clear from available obtter that ACLI's available obtter that ACLI's entitlement to claim punitive damages if it succeeded in its claim was, at best, arguable.

If the judge did take that factor into account it would not have merited much weight. Viewed in isolation it would not justify the court in interfering with his decision.

The judge accepted that "particularly in the case of covert fraud" the U.S. procedure of pre-trial discovery and depositions could be of great value to a plaintiff, and that

ACLI complained that he did order not give sufficient weight to that

courts it was a matter for the exercise of the court's discretion. Since the case was likely to require prolonged examination of documents and accounts, the judge rightly concluded that it was most unlikely that jury tital would be ordered in the UK, that trial would take much longer in America with a jury and that the dispute would be much better tried by a judge alone.

During the course of the present appeal, ACLI amounced that it was prepared to undertake to exercise its right to claim trial by a judge alone.

Mr Lattman, for M and R, submitted that the court should ignore that change of heart since ACLI had had the opportunity of making the concession when the disadvantage of jury trial was first raised, and had refraned from doing so.

The court could not disregard it. If there had been legislation between the hearing of the claim of the disadvantage of jury trial was first raised, and had refraned from doing so.

The court could not disregard it. If there had been legislation between the hearing of the claim of the disadvantage of jury trial was first raised, and had refraned from doing so.

The court could not disregard it. If there had been legislation between the hearing of the courts should protect him.

For ACLI—Are and Mad. The solutions.

If a party, after reflection, decided not to exercise its right.

there were procedural advantages for ACLI in the New York must also be a change of circumstant.

The judge had also concluded The assessment of weight to procedure the assessment of weight to procedure for discovery was a disbalancing of factors on one side advantage of substance. He or the other, were matters for peached that decisions because in tha discretion of the judge, until view it was nearly certain less it were shown that no that there would be no trial in reasonable judge would have New York in that the English reached such a conclusion action would come on first and determine the issues between

reached such a conclusion.

Mr Justice Stangaton was not obliged to find that the procedural advantage on its own was conclusive. He concluded that the multiplicity of stilts, which was created by ACLI by choosing not to join AMMC as defendant to its counterclaim, was a the point as to timing must be significant disadvantage to its counterclaim, was a the point as to timing must be significant disadvantage to disregarded.

In America there was a constitutional right to claim trial by jury, whereas in the English courts it was a matter for the exercise of the court's discretion.

Since the case was likely to require prolonged examination of documents and accounts, the judge rightly concluded that it was most unlikely that jury trial would be ordered in the UK, that

derspendi

The appeal should be allowed and the injunction quashed, subject to (ACLT's indertaking to claim trial by judge plone in the New York proceedings in lieu of trial by judge and jury and, as offered in the course of the hearing of the appeal, to delete from its defence and counterclaim all references to AMMC, thereby reducing the burden of overlapping discovery in the two actions.

overlapping discovery in the two actions.

Lord Justice Purchas gave a concurring judgment. Lord Justice Parker, also concurring, said that before an English court should stop proceedings in a foreign defendant's own court, a very substantial bedance in favour of the defendant must be shown for, prime facie, his own courts should be competent to protect him.

For ACLL: Anthony Grabber, QC, and Nicholas Stadion (Freshields). For M & R. Mark Litmen, QC, and Ian Gearing (Hubber Smith & Co) By Rachel Davies

Airline to challenge ruling

BY RAYMOND HUGHES, LAW COURTS CORRESPONDENT

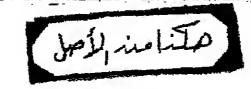
PHILIPPINE AIRLINES is to challenge a decision to revoke its permit to operate into Gatwick Airport, treaty between the two countries. The airline was not a party to the It has been given leave in the treaty, and, therefore was not High Court in London to apply to bound by it. Mr Denis Henry, QC have the decision by the Secretary for the airline, told. Mr Justice of State for Transport quashed. McNeill.

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on defence put at £280m and that we will be a considered to the second to the seco By Bridget Bloom, Defence Correspondent

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The Late State

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ACTION OF THE DISTRIBUTE OF

parts, suppliers told BY ARTHUR SMITH, MIDLANDS CORRESPONDENT AUSTIN ROVER, BL's cars division, in a move which could have serious consequences for Britain's try, is werning suppliers that orders will be switched overseas unless

Concern is mounting within Anstin Rover that its "buy British" policy could be backfiring. In order to ensure the long-term future of domestic suppliers, the company entered into two and three-year agreements with a dozen major compa-nies, accounting for more than 25 per cent of annual requirements. But Austin Rover believes that only one or two companies are like-

BRITAIN'S defence budget is fore-cast to cost some C280m less than

was planned, even taking, into ac-

count a £240m cut imposed by the

Treasury last July.
The substandial underspend is

apparently largely on the procure-ment of weapons systems. Accord-

ing to figures published by the

Treasury accompanying last week's budget, actual expenditure on buy-ing arms will be £7.lbn instead of

Overall, defence expenditure for

1984-85 is expected to total

£15.28bn against the original planned total of £15.8bn. Adjusted

for the £240m cut and certain other

payments, the net underspend is

The Ministry of Defence yester-day acknowledged that it had un-derspent its budget, but it empha-sised that after a change in the gov-

emmeot's accounting rules last summer the Ministry - would not

In the past, if an underspend looked likely, the Ministry called in-

contractors bills early in an effort to

end the year with balanced books.

The Ministry suggested yesterday that the underspend had been across the board though mainly in the procurement field. No major

projects have been cut

lieved to be £280m.

lose the money.

the £7.5bn planned a year ago.

trade-off involved guaranteed prices in return for improvements in productivity, quality and delivery that would eventually be reflected

- Carlo Marie Control of the Control

"We cannot give open-ended sup-port to suppliers who year after year fail to become as efficient as competitors in Europe and further afield, an Austin Rover spokesman

Austin Rover has given a warning that up to 45 per cent of sup-plies, compared with the present 15 per ceot, could be sourced from abroad. "How much of that business is retained within the UK is

ly to deliver on the bargain. The not a matter for us but for our sup-

The threat to the components sector and the importance of Austin Rover is underlined by a research study, commissioned by the West Midlands County Council, and soon to be published. On the one hand Austin Rover

had to convince suppliers that its new models would increase volume and that product development would continue. One the other hand, component companies had to have the confidence to invest in new plant and machinery. The fundamental problem is one of trust and good management, not money,

Underspending TUC rifts grow over government relations

BY JOHN LLOYD, INDUSTRIAL EDITOR

THE TUC general council faces deep ond damaging divisions over its future relations with the Government - an issue which refuses to be finally resolved.

Today's special meeting of the TCC general council will see a stark clash between those who wish to continue the TUC's suspension of its membership of the National Economic Development Council (NEDC), and those who wish to end

A further clash is expected at Wednesday's meeting of the Employment Policy and Organisation Committee (EPOC), which will debate a paper strongly justifying the TUC's policy in the National Graphical Acceptation (Steelment Monthly 1997). phical Association/Stockport Mes-

senger dispute last December, The NGA question, and the nar-row victory of the centre-right in refusing to endorse unlawful action, remains a live and cootentious one. The TUC office paper, a review of the operation of the 1980 and 1982 Employment Acts, makes clear that most unions have taken the legal option of not challenging the legis-lation when it was invoked against them by employers. It is seen by left-wingers as a marker for the bitter debate which is sure to come at the Congress next autumn.

Mr Bill Keys, the Epoc chairman and general secretary of the print-

union Sogat'82, is a critic of the way the affair was handled by Mr Leo Murray, the TUC geoeral secretary, Mr Keys bas made it clear he will not defend the general council majority position, and may even speak against it from the Congress

The office paper to today's special council meeting is also an uncompromising one, presenting a pow-erful argument for the usefulness of NEDC to the unions and the necessity of rejoining it.

It is expected to draw fire for refusing to consider the need to give a clear signal to the Government of the TUCs cootinued displeasure over the banning of unions at the Cheltenham communications headquarters - the original reason for the NEDC boycott

Mr Murray's position in this is seen as isolated, though general council members have drawn back from an all-out attack. Some who remain hostile to rejoining the NEDC are anxious not to personalise the issue and to find a compro-

It is clear, however, that his strong lead in bringing the TUC in from the cold of total hostility to the Government has made Mr Murray justified attacks without comprounforgiving foes on the TUC's pow-erful left-wing

BL may go overseas for Dilemma for Tories on Oman affair

THE AFFAIR involving Mrs Margaret Thatcher, the Prime Minister and that of her soo, Mark, in bidding for an overseas contract in Oman, is now reaching a critical point for both the Government and

Labour opposition.

After nine weeks of allegations disclosures and angry official deni-als, the matter has, to many people's surprise, not gone away but is still much alive with new evidence appearing and Conservative and Labour MPs tabling rival motions in the House of Commons.

The affair turns on Mrs Thatch-er's visit to Oman in 1981, the pres-ence of her soo there at the same time, the disclosure of her soo's employment as consultant to the Cementation International subsidiary of Trafalgur House and the subse quent award of a £300m university

contract in Oman to that company There is on evidence of any disionesty on Mrs Thotcher's part. Instead, the Labour opposition ques-tioning has focused on the potential conflict of interest.

The issue is whether Mrs Thatcher knew of her son's involvement with the Cementation bid to wio the contract of the time of her Oman visit, and the extent to which Mr Mark Thatcher may have exploited his mother's position in order to fur-ther bis own commercial interests.

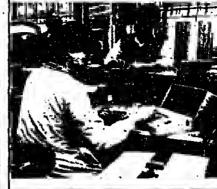
For the Government, the immediate problem is how to end a row which is now undoubtedly a major distraction for the Prime Minister, both in time and worry. For the Labour Party the ques-

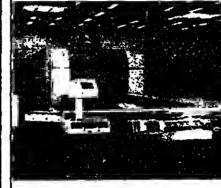
tion is whether the leadership should formally take up the issue of initiating a full-scale debate in the House of Commons. This would raise the stakes and might risk a crushiog rebuff. Mrs Thatcher has said that on

her Oman visit she expressed interest in British participation in all aspects of the university project, though no particular company was mentioned at any time. Senior Tories see a dilemma

since Mrs Thatcher cannot answer what they, and she, regard as un-











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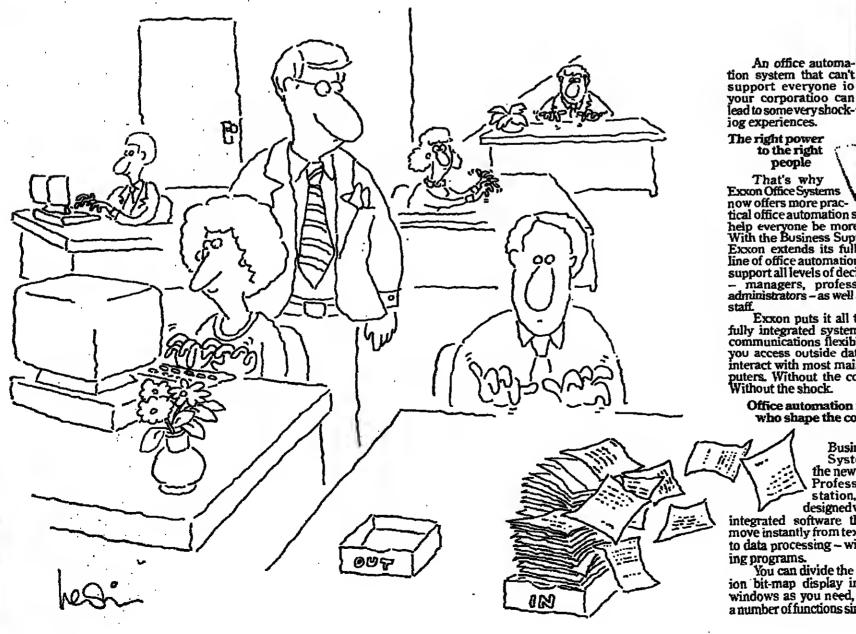
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ing Services Exhibition (021-705

ference and Exhibition CAD (01-643 8040) Brighton

April 9-13
International Fire Exhibition—
Liff (01-387 5050) Olympia
April 12-14

Solids Handling Exhibition-

SOLIDEX (Uxbridge (0895)

58431)
May 1-3
All Electronics ECIF Show
Barbican

Fibre Optics Exhibition and

Conference (6799 26599)

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April 11-15 International Fur Trade Fair (01-734 0543) Frankfurt

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April 30-May 4
Direct Marketing Symposium and

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Asian Automotive and Acces
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Materials Testing Exhibition (St April 9-12

Barbican

UK TRADE FAIRS AND

Albans (0727) 63213) NEC Birmingham

Exhibition of Goods and Services for Conference and Exhibition Organisers — CONFEX (01-908

Shoe Show (01-739-2071) -Kensington Exhibition Centre

The New Motor Trader Show (01-643 8040) Wembley

OVERSEAS TRADE FAIRS

Fast Food Exhibition (01-439

March 20-23

March 23-26

3964) March 24-26

April 4-11

BUSINESS

BY ARTHUR SANDLES IN LONDON

area of friction with agents.

Martin Rooks.

BRITISH AIRWAYS is reassessing of the few travel groups to suggest its tour operations activities after a that there might not be much growth in the market this year winter selling season in which its Thomson was among those companies which predicted an additional main brands, Sovereign and Enterprise, have lost considerable market share to rivals Thomson, Inta-1m package tourists out of Britain sun and Horizon.

After only eight months in the job Mr Alan Wadell, the general The total market now seems to be marginally down on last year. In manager of Sovereign/Enterorise 1983, however, there was a sudden surge in late bookings and many in has been offered another post in BA the industry suggest that the same which he is considering at the moment." He has been replaced by Mr
thing will happen in 1984.

News of BA's problems comes at
Meanwhile, another major arm of
a time when the industry is examin-

BA tour operations, Martin Rooks, ing the cost of the winter price war is for sale. In this case the company has been doing well, but it is a di-rect-selling organisation and by-passes travel agents. BA has de-cided this provides an unnecessary size then the severe cut in margins will cause problems for those orgabusiness from others.

Thomson, Cosmos and Horizon are thought to have done particular-Several companies, notably Intaly well in the winter sales season.
"For the summer of 1984 we have confirmed bookings of 270,000," n, bave expressed an interest in BA denies that Mr Waddell's departure is directly connected with says Mr Bruce Tanner, Horizons recent indications that Sovereign chairman. This is 32 per cent more and Enterprise have been faring-badly. "We are not just after market than at this time last year. Nearly 60 per cent of our summer capacity share. We are io the business of has now been sold."

EARLY STATEMENT EXPECTED FROM PARTNERS IN SCOTT LITHGOW VENTURE

Rig talks at decisive stage

BY MARK MEREDITH, SCOTTISH CORRESPONDENT

NEGOTIATIONS are at a decisive phase over the completion of Brit-oil's cancelled order for a £88m per cent and Howard Doris 25 per semisubmersible drilling rig at the cent, said last week they thought Scott Lithgow yard on the Lower there could be a decision this week.

over the yard from British Shipbuilders. But they have first had to get the approval of Britoil over the completion of the rig order which the oil company cancelled in December when construction was two years behind schedule.

Managers for the joint venture, Talks have been going on not on-

Trafalgar House, the shipping by with Britoil but also with the and property group, and Howard trade unions at Scott Lithgow. With Doris, the Anglo-French offshore Britoil's go-ahead in hand, the conconstruction company, joined for sortium must then complete the ces this month in an effort to takeand get the approval of Govern-ment for a private takeover. The rig, which is about one-third

finished, is wanted by Britoil for its An essential part of the talks be-

competence of the venture to complete the order. The Swedish offshore yard, Gotaverken Arendal, could be discounted. which has built semisubmersibles.

Questions such as the price of the type of works agreement with the ment financial assistance have to be resolved before work can be resumed at Scott Lithgow.

price for the rig, while the two com-

Central and Local Government Show and Conference (01-680 4200) Wembley March 21-23 oil has been over the technical around £130m. The difference may partly be absorbed as one third of the rig is already completed and Fashion Fabrex (01-379 5568)

The Government pledged £185 to "wipe the slate clean" for a private takeover of the yard. It is not known how much of this will go on order, the price for the yard, the meeting the redundancy payments type of works agreement with the much may go towards underwriting

numbered 4,000 at Christmas, re-Britoil is thought to be unwilling main at Scott Lithgow. The new to pay more than the original £38m consortium is anxious to negotiate a works agreement with them similar panies' quote is thought to be to those at other offshore yards.

Industry row over £200m RAF order

Air Force's plans for a new hasic one of which is British.

trainer aircraft to replace its ageing The aircraft on the short-list are:

It centres on an order for more than 150 aircraft, worth initially about £200m, but probably more than double that during the in-service life of the aircraft to the end of the century, with spares, replacement aircraft and other support

Horizon last week reported pre-tax profits of £12.5m for 1983. The struggle has arisen because British Firecracker, built by Fire-tax profits of £12.5m for 1983.

the Australian Aircraft Consortium (AAC) A-20, a derivative of the A-10 trainer already under development for the Royal Australian Air Force; the Brazilian Embraer EMB-312 Tucano, now entering service with the Brazilian Air Force, the Swiss Pilatus PC-9, a derivative of the PC-7 which is widely used by the Swiss and other air forces; and the an Pratt & Whitney PT-6A turbopropeller engine of about 550 shaft horsepower. No small British-

The RAF and the Ministry of Defence say foreign-built designs have had to be included because of the almost total lack of British-built de-

Originally the RAF was studying both jet and turbo-prop aircraft as possible trainers, but decided to re-

A BATTLE is developing in the UK 17 contenders from 15 companies to Wight, with two prototypes flying acrospace industry over the Royal a "shortlist" of four aircraft, only and one due to fly soon. craft because of the cheaper initial purchase, flying and maintenance

> An increasing number of MPs and trades union representatives should support the UK aerospe trainer rather than buying any for-

> The Ministry of Defence has stipulated that the winning design must be built in the UK.

Trafalgar reviews P&O bid

By Ray Maughan

TRAFALGAR HOUSE, the shipping, construction and energy group, is still "actively reviewing sibility of making a new bid for Peninsular & Oriental. Steam Navigation following clearance last week from the Monopolies Commis-

The group stressed yesterday, however, that no decision had been taken, no date had been set for a board meeting to consider the matter and the subject of P&O was not even an "agenda item" as yet.

The stock market has been anticipating for some time a new offer for P&O, and the group now has a capitalisation for more than £430m against the £290m price offered by Trafalgar last May.

Trafalgar must reach a decision within 30 days of the Commission's published verdict if it wants to bid quickly. Alternatively, it would be free to make a new offer at any time after the first anniversary of the Monopolies reference on May 23. But, throughout the course of the Monopolies investigation, Tra-falgar gave no indication of its eventual decision.

Rival Victor offer likely

By Jason Crisp

BRITAIN's Applied Computer Techniques (ACT) is not the only company trying to buy the compu-ter business of Victor Technologies. A spokesman for the bankrupt U.S. corporation said yesterday: "We are

negotiating with other parties."

Last week, ACT said it had an agreement in principle to buy the marketing rights outside the U.S., and worldwide rights to Victor's Si-

rius personal computer.

ACT said yesterday that it hoped final details of the deal would be concluded by the end of this week.

Aid group seeks policy review

ByQuentinPeel

AN INDEPENDENT group of British aid specialists has called for a Royal Commission to be set up to review all aspects of British Government policy affecting the poorest developing nations, including both aid and trade policies.

In a report published today, they argue that a whole range of Government actions, including its overall monetarist economic policy, has had disastrous effects on Third

The Independent Group on British Aid includes representatives from Christian Aid, Oxfam, the Overseas Development Institute and the World Development Move-

It claims that policies of trade restraint have severely damaged the exports of the poorest countrie while high interest rates in the West have "virtually bankrupted" much of the Third World.

granting duty-free access to the UK market and exemption from restric-tions of the Multi-Fibre agreement; British Government initiatives in proposing new international arrangements to stabilise the commodity earnings of developing countries; and an easing of IMF terms for credit to take account of the need for long-term structural adjustments in the Third World.

International Footwear Trade Fair (01:493 8393) Dusseldorf March 30-April 1 Overseas Property Exhibition (01:487 2622) Hong Kong April 24 Saudi Oil Show (01-486 3741) Saudi Arabia April 3-6
International Technology Exchange Fair—TechEx 84 (01-584 5749)
Florida

believe, however, that the RAF industry by encouraging the devel-opment of a new British turbo-prop

March 21

Hanover Fair (01-651 2191)

SERC/Netion: _ Symposium polymer grid reinforcement in-civil engineering (01-836 3261) Institution of Civil Engineers,

enterprise as an instrument of foreign investment in Belgium ((02) 219 07 88) Brussels March 27-28 FT Conference: The second auto-

Florida International Packaging Exhibi-tion and Display of Confec-91) tionary Machinery — INTER-Hanover PACK (01-493 3893) Dasseldorf

AND MANAGEMENT

House: Korea—hard facing a successful (01-930 2233) St James's Square, 5W1

March 23 British Chamber of Commerce for Belgium and Luxembourg The small and medium-sized

FT Conference: The second automated manufacturing conference—tools for competition (01-621 1355) InterContinental Hotel, W1.
March 25
ESC: Acquiring and funding a.
U.S. business (Uppingham (0572), 922711) Selfridge Hotel, W1.
March 28
City Business Conferences; Setting up a portable pension

Setting up a portable pension scheme (01-727 5120)

April 3 Faculty of Law. Tax avoidence after the House of Lords' deci-sion in Furniss v Dawson (01-283-1030) City of London Polytechnic, ECZ April 3-5 Marintech North West: Ultra-sound for the offshore and oil industry (061-273 3278) Manchester University

April 46 April 46 ISBA: World Industrial Adver-tising Congress (01-499 7502)

April 5-6
FT Conference: Multinationals and European integration (01-621 1355)
InterContinental Hotel, W1 April 6
IFS: the Budget and the Finance
Bill (01-828-7545)
St Ermins Hotel, SW1
April 3-18
Metal Bulletin: 2nd International
Conference on Copper

(01-330.4311) London Marriott Hotel, W1 April 11-12 FT conference: European bank-ing (01-621 1355) Milan

CFS conference centre, WI April 25-27
March 28
March 28
Insig: Banks and computers (1)
Liffe: Financial futures for pen763.07.24)
Paris
Sion funds (01-623 0444)

Anyone wishing to attend any of the above events is advised to telephone the organisers to ensure that there has been no change in the details published.

Financial Times Conferences

The following is a list of conferences being organised by the Financial Times in 1984:

THE SECOND AUTOMATED MANUFACTURING CONFERENCE—TOOLS FOR COMPETITION London, 27 and 28 March

> **MULTINATIONALS AND EUROPEAN** INTEGRATION London, 5 and 6 April

> > **EUROPEAN BANKING**

Milan, 11 and 12 April

THE FT WORLD GOLD CONFERENCE Hong Kong, 3 and 4 May SITEV—FT WORLD MOTOR CONFERENCE Geneva, 23 and 24 May THE FT/CITY COURSE

> London, 3 May/20 June THE ELECTRONIC OFFICE London, 5 and 6 June OIL AND GAS Oslo, 18 and 19 June

WORLD ELECTRONICS London, 20 and 21 June FOREIGN EXCHANGE London, 25 and 26 June

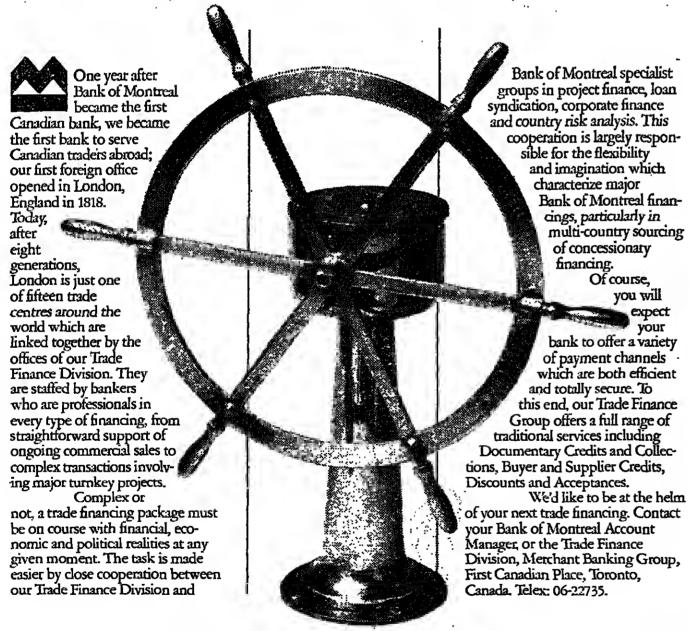
WORLD AEROSPACE CONFERENCE London, 28/29/30 August

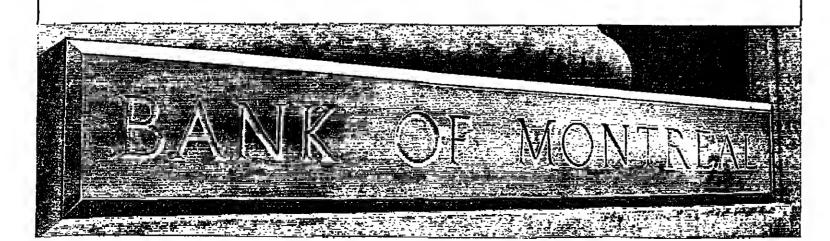
All enquiries should be addressed to: The Financial Times Limited Conference Organisation Minster, House, Arthur Street London EC4R 9AX

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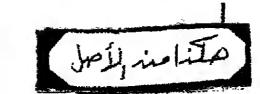
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UK NEWS

Boffins get a taste for business

FROM SOYA SAUCE to satellites and from bacteria to bat detectors -a new breed of entrepreneurs in Commercial links between university research Britain's universities is venturing and business have spawned a wide range of out into the world of commerce. companies. Peter Marsh reports.

In the past few years Britain's 45 or so universities have significantly increased their industrial activities. Sometimes an academic institution or an individual researcher sets up a new company to exploit scientific

and technical ideas.

Alternatively, academics can participate in a variety of less formal activities, for example by taking on part-time consultancy work with in-dustrial organisations. The results vary between the

spectacular and the ordinary. Dr Hermann Heuser, an ex-physics re-searcher at Cambridge, has become a multi-millionaire in a few years through his founding, with Mr Chris Curry, of the microcomputer company Acorn.

Cambridge is Britain's best example of a university town that has successfully "spun off" new companies. Over the past decade at least 50 such enterprises have started in

At the other end of the spectrum is Dr Frank Grunfield, a 26-year-old lawyer, came to the university os-electronics specialist from Warwick tensibly for a 2 hour a week refire-University. Financial institutions have three times rejected his reny in thin films for semiconductors. Undaunted, Dr Grunfield has taken out a second mortgage on his house and has just opened for business in

Perhaps Dr Grunfield can take heart from Professor David Rhodes, who combines n teaching job at Leeds University with the post of managing director of Filtronic Com-ponents. The company makes spe-cialist electronic hardware.

To fund his company, Professor Rhodes raised - with some diffi-culty - Cl.Sm from British inves-

"My biggest problem was my ti-tle. I had to gain credibility from the financial world which thought I was a boffin with my head in the clouds," Prof Rhodes said.

"We are a catalyst for setting up a medical technologies." Three main factors are behind the increased willingness of uni-

movement of animals.

industry. First, and most important, are the Government's cuts in education spending. These have reduced the income (now running at about Clbn a year)

that the universities receive says. through the University Grants "Ur Committee (UGC). Although the UGC cuts are sup-

posed to have spared science and technology, many research departments have been hit. Thus, academ- goods and services worth some cut-price furniture.

Aberdeen University has had ic institutions have turned to indusprobably the most institutional suctry to fund research projects. cess in promoting small businesses. But by its provision for ancillary About two years ago it set up a holding company to manage its reitems such as maintenance of buildings and technical support, the lationships with industry. Aberdeen UGC cash also pays for research University Research and Industrial WORK. Services (Auris) supervises nine

Lord Flowers, rector of Imperial College, London, and chairman of the Committee of Vice Chancellors separate enterprises, whose interests include special bacteria for industrial processes, the production of TV films and the sales of old and Principals, says: "Most economy measures have some good effects and this bas been one of Auris also has a share in six

joint-venture companies whose shareholders include industrial UGC figures show that compa-nies contribute some C? im a year in groups such as Esso and BP. These research funds to universities, enterprises sell, among other about 10 per cent of universities' tothings, broad-leaved trees and teltal research grants. But if sums paid less formally to individual reemetry systems that record the searchers and departments are in-Mr Keith Sellar, the company's cluded the total cash flow from inchief executive, an ex-commercial dustry is roughly double that, in some estimates suggest.

A second reason for closer links is the changing attitudes of the commercial and financial communi-

"Industrialists are becoming new economic infrastructure in this more patient in their attitudes topart of Scotland, based on services ward investments, says Professor to the oil industry, electronics and Derek Smith, chairman of Udil the University Directors of Industrial Liasson. Prof. Smith is also ma-naging director of QMC Industrial Research, the industrial arm of versities to entangle themselves in Queen Mary's College, London.

> "In their search for new ideas that will give a good return on in-vestment, people are going up-stream in the risk husiness," he

> "Universities are acquiring a track record in industrial work. We can do a reasonable job in filtering oot the good ideas from the bad."

£850,000 a year. It has a full-time staff of 30, supplemented by other university employees when required. The company's products in-clude instruments to detect bat sound and hardware that monitors

A third factor behind the stronger ties between universities and industry is the greater willingness by individual academics to chance their

The simplest way for university staff to collaborate with industry is through an informal consultancy agreement, under which the re-searcher earns anything from £20 to £200 a day for his expertise. The cash is normally shared with the university authorities on roughly a

For example, Dr Mike Smith, a computer specialist from Reading University, works with a Woking company called Micro Control Systems on the design of hardware for monitoring industrial processes.

"Academics who do this kind of work are on the increase," com-ments Mr Geoff Burkitt, who has run the industrial services bureau at Brunel University for 16 years. "Universities recognise that a close contact with the outside world adds conviction to an academic's teaching and makes him a more worthwhile employee."

Manchester University has hit on a rather different mechanism for turning academic research into products that can be sold. The university has established a wholly owned subsidiary, Vuman, headed by Mr Norman MacLeod, a former

Vuman's job is to listen to the ideas of academics for commercial products, arrange for the extra design and development that may be required and then attend to the crucial business of marketing the finished item.

In the past year, Vuman has sold goods worth some £750,000 includ-Prof. Smith's own company sells ing computers, robots, lasers and

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Mirror flotation to follow Reuters'

By Allson Hogan

THE FLOTATION on the Stock Exchange of the Mirror Newspaper Group, originally scheduled for March, has been put back until af-ter the planned mid-May flotation of Reuters, the communications group. This is to allow time to draw up detailed plans for a \$50m printing works in Manchester.

Mr Thornton has suggested marketing the shares by giving them away as prizes in the Mirror's bingo competition and printing the prospectus for the Dotation in all edi-

Group flotation in "the first half of the year," but says that it would be better to follow the Rauters flota-

We would have had to have gone well in advance of Reuters before the full details of its flotation had been decided. Some of our advisers are closely involved with Reuters and they would have been forced to disclose in our prospectus any infor-mation they knew about Reuters' plans," he said.

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Mr Clive Thornton, former chief executive of the Abbey National Building Society and chairman of the Mirror Group since December, expects to present his strategy at the beginning of April to Mirror's parent company, Reed Internationl, and to financial institutions interested in backing the flotation.

tions of Mirror newspapers. He wants all employees, including union chapels, to own shares.

He hopes to have the Mirror

Mr Thorpton said a number of financial institutions have agreed to support him if he can reach agreement with the unions. They seem doubtful that I can achieve in three months what others have failed to achieve in 30 years, but our discussions have been in a most co-operative spirit and I am very optimistic,"

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holders will have to surrender Olvidand Counce Net. 2 Net Stock Exchange in London for the new Common Shares to be admitted to the Council of the Stock Exchange in London for the new Common Shares to be admitted to the Council of the Prospective are available and may be obtained ouring usual business hours up to and Insluding 29th March, 1984 from Cazenove & Co., 12 Tokenhouse VarQ, London EC2R TAN.

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chief executive following the retirement of Mr C. L. Ferguson Mr B. Thompson, general mana- manager. ger of the group's major sub-sidlary, John Blackwood Hodge and Co since 1979, and Mr K. C. Scoble, who has joined the group

Mr Carlo de Joncaire Narten

as finance director. Mr R. H. Birtwistle has been appointed managing director of COLAS PRODUCTS. Mr Birtwistle was strategic planning director of Shell UK Oil and succeeds Mr P. D. Skinner who has Controversial changes are now certain to be made if the scheme been appointed chairman of Shell Companies in New Zealand. Colas Products is a wholly owned subsidiary of Shell UK.

share more of the risks. The loan guarantee scheme was

persons hat. Butter Engineering Constractors, a group member based at Whitehaven, will carry out junction improvements at Newby Brdige, Annan, in a £111,000 contract for the Scottish Development Agency. In Whitehaven, Border will carry out stabilisation of the retaining wall at South Beach for Copeland Borough Council for £147,000 and, in a smaller contract for North West Water Authority, will make improvements to the sewers at Monkwray Brow for £29,000. In a £540,000 contract, 22 grouped fatiets will be erected in a sheltered bousing scheme at Botcherby for the City of Carlisle, at Wigton, Border will carry out a maintenance contract for Cumbria County Council at Males. rowers pay a 3 per cent premium to the Government in return for an 80 per cent guarantee. The participating banks actually lend the money and stand the re-

has been hailed as a great success with about 13,000 businesses borrowing more than £450m.
A major cause for concern, how ever, has been the high failure rate an estimated one in three busi-

payer is almost £34m. Government, ministers are now

of companies seeking loan guarantee scheme finance.

motorway between juoctions 32 and 33. The 35-week contract begins this month for completion by October 31. The Manchester office of Wimpey Construction UK has been awarded the building cootract on Other sectors of the Government are keen to increase the premium paid by the borrower or to abandon the measure completely. But des pite its deficiencies, ministers still seem unlikely to scrap the scheme. Such a move would expose the Government to accusations that its commitment to the business sector

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Business loans

By Tim Dickson

scheme

in doubt

THE FUTURE of the loan guarantee scheme - one of the Government's most significant measures to help small companies - is hanging m the balance.

survives a tough review by the Department of Trade and Industry. New conditions will be imposed to reduce the mounting level of ses and the 30 participating financial institutions will be forced to

introduced in mid-1981 on a threeyear pilot basis. It is aimed at busiessmen unable or unwilling to provide personal security or without a track record. Under the terms, bor-

maining 20 per cent of the risk. In terms of "take up" the scher

nesses using the scheme has apparently gone into liquidation. It was hoped that the premium income would offset claims by the banks, but the latest net deficit to the tax-

manimous in regarding these losses as unacceptable, but they are divided about what action to take. Mr David Trippier, the small business minister, is known to fayour continuation, but with the banks in future taking 30 per cent of the risk. This, he feels, would encourage them to improve their appraisal and subsequent monitoring

UK NEWS

Bir A. C. Richards, chairman of sition of which was approved by BLACKWOOD HODGE, has Bairstow Eves shareholders on assumed the responsibilities of March 16. retirement of Mr C. L. Ferguson SUPRA AUTOMOTIVE has as group managing director and expanded its management team from the board. The following with the appointment of Mr have been appointed to the Neville Cooper as sales director board. Mr R. A. Cameron, group He joins from Ring Automotive

executive for Europe since 1978, where he was acting UK sales The BRITISH DIRECT
MARKETING ASSOCIATION
has appointed Mr Collin F. Fricker as executive director from mid-April. He comes from

the Association of British Launderers and Cleaners where he is director and general W. S. ATKINS GROUP CONSULTANTS has appointed as technical directors Mr. John E. Meore, head of the corporate development department and Mr David G. Morgan, head of the urban and regional planning and Indexens architecture departs

OTIS ELEVATOR has appoint urban and regional planning and ted Mr Peter Kerrell to the landscape architecture departmently created position of direction of the architectural tor of marketing. He was Otis practice, Atkins Sheppard Fidler and Associates.

CITIBANK has opened branch in Bristol, managed by Mr Paul Gibbs, a vice president. Since foiling the Bank in 1976 he has held key positions in the Ivory Coast, Mauritius and Hong tas been appointed managing director of MORGAN GREN-FELL ITALIA S.P.A. Mr C. F. Lemming has been appointed to the board of HAWKER SIDDELEY DYNA-MICS ENGINEERING as engingering director from February

appointed a non-executive director of HOME COUNTIES NEWS or of HOME COUNTIES NEWS-PAPERS. He is chairman and chief executive of F. Johnston and chief executive of F. Johnston and Co., Edinburgh (newspaper publishers) and non-executive chairman of Junn and Wilson tive and founder of Taylors Group (bookbindars); he is also Estate Agency group, the acquir a member of the Press Council.

Above all, the majority of

This situation could change in

INSURANCE

Ending of tax relief challenges salesmen

FOR MORE than a century, his pension benefit until he investors have received fax reaches retirement, whereas relief on their life assurance, life assurance savings contracts relief on their life assurance. Iffe assurance savings contracts premiums—a factor that gave were available for terms of 10 life contracts a competitive years. The procedures for edge over most other forms of claiming back tax are more savings.

The benefit of Life Assurance. Premium Relief (LAPR) to the employees are in their em-UK life assurance industry was, ployer's pension scheme, both however, immeasurably greater. in the public and private sectors than the actual value of the and are not open to the blan-tax credit. For it provided an dishments of the life assurance unsurpassed marketing aid for Salesmen for pensions. intermediaries selling or pro-

moting life assurance.

a year or so. Mr Norman

In many cases salesmen had Fowler, Secretary of State for
only to mention the tax relief. Social Services, is chairing a
element to complete the sale government, inquiry into the The ability to get money back subject of personalised portable from the tax man counted far pensions. The supporters of more than the actual benefits this concept, headed by the provided by life assurance. — Centre for Policy Studies, want the UK life assurance in employees to be able to opt out dustry has to learn how to of their company pension operate without LAPR since schemes and make their own Mr Nigel Lawson, Chancellor of pension arrangements.

creditors of the above-named Company, which is being voluntarily wound up, are sequined on or before the 1st day of June, 1984, to send in their full the Exchequer, terminated this. The evidence given the intax concession in his Budget quiry by the three life comlast week.

last week.

His announcement came as a sociations—the Life Offices Association, the Assosock, even though the Budget clated Scottish Life Offices and provisions bad been leaked a the Industrial Life Offices Association—was, on balance, in This gave salesmen enough time to persuade many of their the transfer of the continued to persuade many of their compulsory membership. They

not going to waste time trying to persuade Mr Lawson to change his mind. Instead, the change his mind. Instead, the executives are claiming that life assurance is still highly com-

Chancellor has not ended the public's need for life assurance. The salesmen are not quite so confident. They feel their selling task has been made barder. They are already looking more closely at the other products available from lifa companies which still have a tax concession, in particular those pension contracts available to individual investors.

clients to take out life assurance while they could still obtain the benefit of LAPR.

Life company executives have put on a brave face. They are not going to waste time terms are companies, since life companies. companies, since life companies stand to benefit from complete personalised pensions.

assurance is still highly competitive, especially to the higher rate taxpayer. They say the ending of LAPR will challenge them to develop new products and new markets, while the channel of the LOA is a leading supporter of the LOA is a leading supporter of the personal pensions concept and it publicly disassociated itself from tha life associations' evidence.

While it is too late for markets, while the ketting managers to submit evidence.

While it is too late for marketing managers to submit evidence to an inquiry, they hope Mr. Fowler will take notice of these changed feelings in reaching his decision, now expected in May or June. The supporters of personal pensions take comfort in the view that Mr. Nigel Lawson is vary keen to see personal pensions introduced. sonal pensions introduced. Two members of tha five-man

inquiry are top life company executives—Mr Mark Weinberg, Pensions have far more generous tax concessions than life assurance. As far as the salesman is concerned, pension contributions qualify for tax. Assurance many people in the relief at the investor's top rate, was only half the basic rate. But there are drawbacks.

The investor cannot touch executives—Mr Mark Weinberg, Chief Executive of Hambro Life Assurance and Mr Marshal Field, actuary and a deputy general manager of Phoenix Assurance. Many people in the pensions industry, were perturbed at the composition of the inquiry, since fi does not inquiry. Since fi does not inquiry pensions experience.

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Other clients included Form Midlands & Thames Valley 021-704 5111

McInerney OF CEARER SHARES Issue of S.31S.248 Common Registered Shares/Common Bearer Shares of HFL20 par value each ranking for the full dividend in respect of the fucal year 1984 sad sabsequent views. all the price of HFL30, clam times on Thurstday, 29th March, 1984, Subscription will only be open to holders of rights of Common Shares outstanding at the interior of HFL29 par value of restriction of HFL30, subscription of HFL29 par value of restring capital. The number of Common state to experte end 1983 Warrants and conversion of U.S. dollar 44 per cent conversion of U.S. dollar 44 per cent conversion of U.S. dollar 44 per cent conversion be effected at all the offices of the Massaging Underwriters also In ourticular, at the offices of the Paying Agents: Barriane Bank BIC. wins £8m orders

McINERNEY

Dublin, subsidiary and associated companies have won over 8m orders. The principal items were: 89 houses at Plymouth in joint venture with Plymouth City Council (£1.3m); 70 retirement flats at Middleton-on-Sea, Sussex for Meridian Housing Association (£1.3m) 53 retire-Association (2.1.3m) as refre-ment and starter bouses at Ash-ford, Kent for Meridian Housing Association (£1m); and 48 bouses in Lavant, Chichester joint venture with Chichester District Council (£1m); all being built by McInerney Homes; 109 houses at Santry, Dublin for Dublin Corporation by Thomas McInerney and Co (£2.5m); Industrial premises at Doba. Qatar for Qatar State by Gulf Housing Co (£750,000).

PROPERTIES,

Continued from Page

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of 20 houses in seven separate blocks. Work has started with a 38-week construction period. Balfour Beatty is a member of TAYLOR WOODBOW CON-STRUCTION has started on a £2.3m contract to build an office block in New Bridge Street, EC4, for Taylor Woodrow Develop-ments, scheduled for completion in Yoly 1995. The building will

CONSTRUCTION CONTRACTS

£15m work for French

ALFRED ROBINSON (BUILD-

ERS AND CONTRACTORS), part of the hou sebuilding divi-

sion of London and Northern

Group, bas been awarded three

contracts worth over £1.1m by Woodspring District Council for work at Weston-Super-Mare. This comprises one cooltract for

46 modernisations and two con

tracts involving 42 elderly persons flats. Border Engineer-ing Contractors, a group member

for Cumbria County Council at Nelson Thomkinson School for

JOHN WILLMOTT COMMER-

CIAL DEVELOPMENTS is to

mall north of the Odeon cinema.

Lancashire Couoty Council, acting as agents for the Department

of Transport, bas accepted a ten-der worth about £3.5m from

WIMPEY ASHPHALT for the resurfacing of part of the Me

Kier Construction

Other clients include: Kent County Council, Sternway, Cam-

bridge Consultants, Britise Rail (Soutbern) Region, DOE, and Greater London Council.

STRUCTION has been awarded two contracts. Valued at £1.13m,

the first is for a DIY store and public house at Bradford Place, Walsall. Work bas started with a

Valsali. Work has started with a 24-week construction programme. The clleot is N.F.C. Progerties, Bedford. The second, valued at 1575,000, is for the Maritime Housing Association, Liverpool, and covers Phase I construction of 20 houses in seven senarate.

BALFOUR

BEATTY CON-

in July, 1985. The building will have four, five and seven-storey sections and will include refurbishment of a two-storey, Grade 2 listed building at 16 & 17 Bride Lane as part of the development. Piled foundations will support a reioforced coocrete frame with reinforced concrete floors. External walls will be brick with asphalt-covered flat roofs and slate-covered pitched and man-sard roofs. Carpeting, full air cooditioning, and lifts, are

carry out a film super store development in High Hoad, wood Green, for the London Borough of Haringey. The proposed 57,000 sq ft retail store will have parking at surface and roof level. Safeway Food Stores will be leasing the accommodation. The scheme will link with the High Road through a retail will be carried out has been awarded a £5m con-tract by the Government of Uganda for the reinstatement of the central streets of Kampala. The work will be carried out over two years and comprises about 30 km of road, some of which is dual carriag Drainage improvement, carriageway realignment pavement repairs and asphalt concrete overlay are included. A new section of road is to be constructed which will allow beavy vehicles to bypass the city centre.

WALTER LAWRENCE CON-STRUCTION, on behalf of the BNIA Brith Housing Society, Is building sheltered accommoda-tion at 175, Willesden Lane, W6, at a cost of £1.5m. Specifically designed for elderly people, the scheme will provide a total of 62
self-contained flatlets for either
one or two persons and six larger
units oo the ground floor for

a £750,000 retail warehouse project for the Royal Life Insurance Company, Texas Homecare will use the warehouse which is to be built on the Wardley Industrial Estate, Worsley, Manches

The Convoltant, to whom applications for prequelification should be sent, is:

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FINANCIAL TIMES

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YEMEN ARAB REPUBLIC **Yemen General Electricity Corporation**

URBAN ELECTRIFICATION CONTRACT YEM 200

Invitation for pre-qualification The Government of the Yemen Arab Republic has received a credit from the International Development Association in various currencies equivalent to about 19 million US dollars towards the cost of the Third Power Project that would be undertaken by the Yemen General Electricity Corporation (YGEC). Part of the proceeds of this credit along with funds provided by the Government of the Yemen Arab Republic and YGEC would be applied to eligible payments towards the cost for further development of the electricity distribution services in selected urban areas under the contract herein

General Description of Project

The urban electrification portion of the Third Power Project for the Yemen Arab Republic comprises continued expansion of the existing electricity distribution networks in three main towns, namely Saza'a, Hodeidah and Taiz.

Scope of Contract Works It is intended to award a single contract for the supply and erection of the

It is intended to award a single contract for the supply and erect following equipment:

S New outdoor 33/11 kV transformer substations

2 Extensions to existing outdoor 33/11 kV substations

1 Extension to existing metal-clad indoor 33 kV switchboard

42 Pole mounted and ground mounted distribution substations

32 Unit type distribution aubstations

70 km approx. of 33 kV and 11 kV wood pole overhead lines

20 km approx. of low voltage wood pole overhead lines

140 km approx. of lv 11 kV and 33 kV underground cable

8 900 approx. service connections. 8,000 approx. service connections.
Miscellaneous associated accessories.

Eligibility

This invitation for pre-qualification is open to all contractors from IBRD member countries. Switzerland and Taiwan.

Application for Pre-Qualification

Interested contractors are invited to apply for pre-qualification documents to the following address. The closing date for submission will be 30th April 1984. It is anticipated that the tender documents will be available for inspection and purchase by pre-qualified contractors by the end of May 1984. Kennedy & Donkin, Pre-Qualification Ref. 1513, Westbrook Mills, Godalming, Surrey, England GUI 2AZ.

WANDSWORTH BOROUGH

Contractors wishing to be lonsidered to selection to tander for carrying out the following works at Airon Estate, Roehamation. London SW15. should submit names to the Oirector oi Aoministration. Room 111. The London SW18 ZPU, by the long of the contractor of the C The contract will include alpeworh
modifications to the existing samector
heaters. Cleaning the fine tube clemodifications and maintenance work in 1,12a
socialed overlings logicher with major
maintenance works in 22 dispirit heat
ing glant rooms including sump and similar contract within the last 12 months.

It is anticipated that speciacations and drawings will be issued in April 1964, and that the contract will commoste in July 1984.

The engineering design services for this scheme will be offorded by the Council's appointed consultant engineers. Messrs John F. Hurley and Pariners, Streathmare House, \$1-55 High Street, Carshaltan, Surrey SMS JAZ.

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بالعجادا فستشريق

INVITATION FOR INTERNATIONAL BIDS NR 0014

MR 0014
Minaco 5.A., a corporation enrolled in the general register of corporate taxoavers of the Brazillan Finance Ministry unper Nr. 16.518.649:0001-39, hereby makes it known to all companies concerned that invitation for international Olds Nr. 0018 is more own for the nactial semiliary. for international Olds Nr. OOTa is now open for the partial accululation of experital accululation of documents and proposals, as well as the initial spenino of the envelopes will take elace on April 18, 1964, at Avenida Amazonas, Nr. 7.790. Gametera Quarter, Cao. 30.000 Belo Horizonte, State of Minas Gerats, Brazil, where those interested may greviously obtain the full text of the initial information concerning the items of the bid. items of the bid. Belo Horizonte,

CONTRACTS & TENDERS

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MOGAMBO IRRIGATION PROJECT PROVISION OF AGRICULTURAL MANAGEMENT APPLICATION FOR PREQUALIFICATION

SOMALI DEMOCRATIC REPUBLIC --

The Mogambo Irrigation. Project will develop Irrigated agriculture over a net area at about 2.200 ha using water abstracted from the Juba River and forma part at a proposed ultimate development of some 6,500 ha net. The canstruction of these works is proceeding under that terms of agreements for huancial aid negotiated between the Samali Gemocratic Republic, the Kuwait Fund for Arab Economic Gevelopment and the Kredstanstalt for Windows 1981.

The objective is to establish a commercially viable enterprise angaged in rice production together with a until print scheme let the production of catton. Expelliate experts are required to issue on integrated management team which shall be differed by a him at company having applied expensions in the commercial management of mechanised neo production under similar environmental conditions. The management team of expensions who will have full executive powers shall comprise:

Approximate duration

Approximete duration of assignment in years

Approximate duration of assignment in years

1) Rice farm manager (Deputy Génatal Manager) 3
2) Field manager 3
3) Chief accountant 2
4) Plant production specialist 3
5) Rice milter 2
6) Workahops foreman/machanic 3
7) Short term seacibilist may be required from their head office.
In addition an expertiala irrigation engineer will be provided by the Mogambo Irrigation Project.
Tha team will be required to train Somali parsonnel who will eventually take over the menagement.

Tenderare who wish to be proqualified for the above Contract should unbuilt their names and addressed to be received by the Consultant before 10th April, 1984, enclosing information about their previous commercial agricultural management experience, financial status and ability to provide the management team required, including short term appoints and head office back-up.

Submisaienu of eriginal documentu, or copias thareot, which ero net in English, should be accompanied by a certified English translation.

Signad: THE GENERAL MANAGER

MOGAMAO IRRIGATION PROJECT

PO 80X 1205, MOGAOISHU

SOMALI DEMOCRATIC REPUSLIC

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and descriptions, fun paraculars of their debts or claims, and the names and oddlesses of their Solicitors (al eny), le the undersigned PATRICK GRANVILLE WHITE of Booth, White & Co., 1 Wardrobe Place,

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from the said Liquidator, are, personally
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prove their dabts or cleimu at such
time and place as shell be specified in
such nodes, or in default thereof they
will be excluded from the benefit of any
distribution made before such
dobts are proved.

Bated this 2nd day of Morch 1984.

PATRICK GRANVILLE WHITE
OAVIO HUGH ANGERSON PEACOCK
Lyguidans.

THE COMPANIES ACTS 1948 TO 1976

THE COMPANIES ACTS 1948 TO 1976

ZEPHYR INTERNATIONAL PUBLICATIONS LIMITED

NOTICE IS HEREBY GIVEN, pursuant le section 233 of the Companies Act 1948, that a Maeting of the Craditors of the above-nemed Company will be

of the above-names held at 1 Wardrobe Place.
Carter Lana, St. Paul'a.
London ECV 5AJ on Thureday, the 29th day of March. 1584, at 12.00 o'clock in the alternoon, for the purposes mentioned in acctions 294 and 295 et the sald Act.
Osted this 6th day of March, 7984, ay Order of the Board PETER J. FILBY. Olira or IN THE MATTER OF

PETER FILBY MAGAZINES LIMITED

of the above-named Company will be hold at 1 Wardrobe Pluce.
Carter Lane, St. Poul a. Landen EC4V SAJ on Thumday, the 28th day of March 1984, ar 11 00 o'clock in the lemnoun, for the purposes montioned in acctions 284 und 295 of the seld Act.
Oated this 6th day of March, 1984.

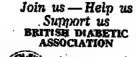
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the good news is

Selling technology

Chip layout

by computer

A COMPUTER aided engin

eering and design software system has been developed by

Mentor Graphics in Beaver-ton, Oregon. It is the com-pany's first entry into the full-custom integrated circuit design market.

Mentor says that the Chip-

graph editor speeds up and simplifies the creation of very

large-scale integrated circuits. Each cell stored in the com-

TECHNOLOGY

EDITED BY ALAN CANE

od Hodge VENTURE CAPITAL FOR TECHNOLOGY

Golden bridge to 'fun'

BY DAVID FISHLOCK, SCIENCE EDITOR

"A LOT of people in the City don't meet people," says Dr Richard Hargreaves. "This business is all about building a relationship with both sides." For Dr Hargreaves the two sides are the would-be entrepreneurs in technology and the financial institutions of the City. Friend State of State

Times Monday Mandia

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City. He rejects the term "broker" -he claims to put more work into a venture than the term justifies and wants to retain a flustical interest for his own company. He sees his opera-tion "more as a bridge between the entrepreneurs and the

City."
Where Hargreaves differs from most City people is that he finds technology and its crestors "fmn." It was a word he used often in the offices in London Wall of Baronsmead Associates, the venture capital agency he launched little more than a year ago, with the support of the Newmarket Company (1981) Limited, a Caze-

pany (1981) Limited, a Caze-nove venture.

For him, a "fun product" is the robotic system developed by Peter Davey in the Department of Engineering at Oxford University. It may well be the most intelligent factory rebot system this side of the Atlantic. Baronsmead arranged the finance — nearly £800,000 — needed by Davey to put the robot system into production, first as an arc welding machine that can "see" what its doing through the smoke and flames. There are four main lovestors in Meta Machines; the

1983-4 Baronsmead Expansion
Scheme Fund, Newmarket
(Venture Capital), Oxford
University and a managed fund
of N. M. Rothschild and Sons,
The start-up finance will allow Davey to move his robots from Oxford's laboratories into a new factory near Abingdon this Engineering Research Council, spring. As Hargreaves sees it, funding research proposals. It the fact that the university it—whetted his appetite for finan-



Dr Hargreaves, bringing tech-

"Ideally, we'd like a lot more Peter Daveys," says Hargreaves, Mr Davey, and his partner, Ed Hudson from Unimation, had been seeking £750,000—"not play money"—in the venture capital market, Their formidable technical credentials were not overcoming the traditional not overcoming the traditional problems for any start-up—no trading, no money, no credibility. "We did an enormous amount of research on the machine and confirmed it as first-class."

Dr Hargreaves believes be can Dr Hargreaves believes he can bring a difference perception to these problems in the case of technology based ventures. His own experience is rooted in technology, starting with Cambridge degrees in engineering, followed by a PhD in electrical materials science from Imperial College, Landon. "I speak the language," he says disarmingly. Fresh from university in the Fresh from university, in the early 1970s, he worked for a while with the Science and Engineering Research Council,

ing because SERC was "not too good at monitoring the results."
So he moved to the City, with ICFC (now renamed 31 Investors), where he remained in wenture capital—"not exclusively technology"—until he founded Baronsmead late in

His aim is simply to help people get started in business, he says. As he sees it, the climate for start-ups is improving "but it's still harder than

ing "but it's still harder than it need be for even quite smart people to raise money."

Both sides present problems. The City is said too cautious—too few real risk-takers compared with the U.S., he says. The entrepreneur tends to be maive in such matters as management, money and marmanagement, money and mar-keting, too often offering "a solution in search of a prob-

A pre-requisite, Hargreaves finds, is that he must like as well as respect the entre-

Peter Davey is a man one can readily both like and respect. But Hargreaves is raising larger sums for other ventures. He raised film last autumn to launch Interface Network, a scheme to open a chain of shops specializing in micromputers for the professional market. The chain—they are talking of 80 stores—will use high-technolog systems Heelf, such as electronic mail, to enhance standards of

" It's all about the team being very smart," says Hargreaves Even so, his entrepreneurs-James Minotto and Brian Ailmey—were finding the City very hard going because of its fears of a disaster shake-out among makers of small computers.
Altogether, Baronsmead has

done 18 deals fer entrepreneurs, raising from £230,000 to £1.5m in total, about £9.5m. It tends to raise more than the entre-

Electronics

centre

plan £4m

TWO LONDON polytechnics are trying to raise film to set up a microelectronics centre for ladustry.

Middlesex Polytechnic and the Polytechnic of Central London

would let companies use facilities both to design and produce electronic circuits. The cash would fund extra staff at

the two institutions and the purchase of new hardware.

The polytechnics would also

run short courses to teach the latest microelectronics tech-

niques to engineers working for companies

Dr John Butcher, head of

the school of electronic and electrical engineering at Middle-

sex Pelytechnic, says that the scheme could ease the critical

design and production tech-niques in electronics.

The two polytechnics could especially help small companies which have no facilities of their ewn to design or make chips. These companies could benefit even if they restrict their activities circular to using

"The electronics industry is gradually accepting that com-panies are unable to use silicon

Dr Butcher plans also to seek

The centre would be based

on existing facilities at the two London institutions. The Poly-technic of Central London owns

hardware on which students de-

And Middleser Polytechnic

sponsorship from banks and financial organisations in the

SECOND GENERATION TURBOCHARGERS **Polytechnics** New boost for turbos

BY JOHN KERR IN SAN FRANCISCO



DRIVERS of turbo cars are invariably enthusiastic about the performance of the machines. But they are increasingly criti-cal of turbo "lag"—the perceptible delay between standing on the accelerater and feeling shortage in industry of engineers who know about the kick that indicates boost from the turbocharger.

So engineers are developing second-generation turbos that give rapid response with strong boost all the way from engine idle to high revolutions per minute. One promising solution is variable-geometry turbocharging.

their activities simply to using electronic hardware. Turbocharging—using engine exhaust energy te spin a tiny turbine whose compressor wheel crams more air into the engine intake—has leng been a highly effective means of boosting torque and power in trucks and in marine and industrial diesels. devices properly unless they know how the hardware is made," says Dr Butcher. The twe polytechnics require fish over five years to set up the centre. Some fish of this would come from existing resources, leaving the rest to be raised from bodies such as the Department of Trade and Industry and large companies.

In marine and industrial diesels. That is because turbos work best with engines that run within narrow speed and load ranges; in trucks, where acceleration is limited, turbo lag is unimportant.

But in power generation sets, lag can cause AC frequency

lag can cause AC frequency jump from tha standard 50 Hz jump from the standard 50 Hz during sudden electrical load changes. In cars, a large turbo matched to low engine speeds gives too much boost at high eogine revs—and its inertia produces considerable lag. A light, nimble turbo engineered for high engine speeds will spin up audobt whom manded cutting sign chips with the ald of com- quickly when needed, cutting and claims to have cut lag- a few.

lag, but will be breathless of the time to reach 1.6 bar boost pressure—from 3.2 to 1.1 seconds.

Essentially a steady-state device, the turbocharger is a poor And matching its unit te the match for the wide speed range of a car engine. Even in trucks, it is less effective at lewer revs/ min as the turbo rotor slows dewn and runs out of breath.
What is needed for all applica-

tiens is a reter that maintains a high rotational speed, ready te kick in forcefully and instantly even at low engine instantly even at low engine speeds.

Variable-geometry turbo-charging does just that One key arrangement features a ring of about 20 piveting aerofeil-shaped vanes around the periphery of the turbo's turbine wheel. At low engine speeds, they bunch up like closed venetian blinds to resent a series of tiny "throats" that accelerate the exhaust gas flew and make the turbo rotale faster. At high engine revs, swiveling the vanes back epens the "throats,"

Holset Engineering ef Hudders-field, a majer manufacturer of truck turbos, is also well down the development track with an undisclosed nozzle-vane turbo and is expected to unveil a pre-production prototype next year.

The University of Bath confirms these levels of improvement in its independent tests backed by the Department of Trade and Industry

In the U.S., the U.S. Army's R and D wing has sponsored an advanced turbo programme on dlesel tank engines. Fitted with

back epens the "throats," backing off exhaust flew te

prevent overboost.
The technique is borrowed from water turbine control in hydroelectric power stations,
Control can be linked to inlet manifold pressure and/or engine speed. In the future, microprocessor control is likely.

A U.S. company, Aerodyne Dallas of Texas, is deing most to promote V-G turbos. It in-stalled its prototype V-G unit in a Mercedes 3005D diesel car

same mass flow as a conventional Garrett AiResearch turbo at 6,000 revs/min engine speed, Aerodyne reports 15 hp more—up te 160 hp—from a Ford Thunderbird Turbo Coupe with much improved drive-

with much improved drive-ability thanks to less lag.

There are ether benefits.
Holset Engineering ef Hudders-field, a majer manufacturer of truck turbos, is also well down the development track with an undisclosed nozzle-vane turbo

advanced turbo programme on dlesel tank engines. Fitted with a turbo featuring variable geometry en the compressor as well as the turbine side, a 750 hp 12-cylinder air-cooled diesel doubled peak torque ratings.
V-G turbos are challenged by a myriad alternative innova-tions: ceramic rotors whose minimal inertia permits rapid spin-up; three-wheel hydraulic and electric turbos; hyperbar systems that resemble the after-

burner in an aero engine; com-pressor bypass—these are just

puter represents a particular logic component and has data on the technology rules for interconnection to other cells and other relevant data. More details from the company in the U.S. 02 (503) 620 9817.

Telecom

Computer protocols

office automatien company, has adepted a communica-tions protocol for microcom-puters devised by a U.S. company, Microcom Inc.

It believes the protocol, which Merlin will market under the name T-Link, stands a good chance of becoming the industry standard for communication between personal computers.

Resed on the model for open systems interconnecties, T-Link is supported by Merlin, IBM, ICL and Apple Computers among others, Merlin says. Mere on 0344 56661.

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has invested some £1.5m over several years on production **NEW ISSUE** equipment that turns out semi

conducter devices. With Edin-burgh University and South-ampton University, the poly-technic is one of just three ac-ademic bodies in Britain that operate chip-making hardware comparable to that found in in-

In other work at Middlesex Polytechnic, engineers hope to start a joint project with com-panies in what is called waterscale integration

In conventional chip produc-tion, electronic circuitry is introduced to a semiconducter wafer perhaps 10 cm in diameter. The wafer is then cut up to produce hundreds of individual chips, some of which have to be thrown away be-

circultry is built into the wafer connect up to each other.
Engineers ne lenger need te
cut up the water—it ferms a
complete system that can then
be plugged inte electronic
equipment.

Some of the chips may be defective, as in the conventional manufacturing process. But the system is constructed so that it diagnoses fer itself where the faults are.

Electrical signals therefore travel through the circultry in such a way as to avoid the defective areas. The engineer using the system never needs to know which parts of the wafer are not working properly. According to researchers at Middlesex Pelytechnic, who have applied to the Government's Alvey infermatien-tech-nelogy programme for cash te tegration could lead in certain applications to cheaper elec-

These Notes having been sold, this announcement appears as a matter of record only

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Business

THE MANAGEMENT PAGE

Product development

Philips looks to design for a boost

BY CHRISTOPHER LORENZ

of the top three executives of Philips, has spent a lot of time recently puzzling about why consumers flock to buy shoes and shirts with "designer" In the lighting division to them.

In several parts of Tollenaar's more than one year ahead." Hence his emphasis on the major product changes, involving consumers flock to buy shoes and shirts with "designer" In the lighting division to them.

No, the somewhat calvinistic Dutch electronics group is not planing to compete with Gucci or Pierre Cardin. But, as the hesd of Philips' troubled con-sumer electronics activities, van der Klugt is obsessed with the need to match the skill of his all-conquering Japanese competitors in creating demand for their new products—a skill which has much in common with the fachion business. He which has much in common with the fashion husiness. He sees industrial designers playing a crucial role in ,as he puts it, "second-guessing" likely consumer preferences: not only for colours, shapes and styles, but also for entire products.

With the sdvent of "world products," shorter product life exples and all today's other

cycles, and all today's other competitive pressures, van der Klugt says designers can no longer just be called in at the eleventh hour to add an attrac-tive external appearance to objects which teams of engineers and marketing men have already developed. Instead, he argues, designers "should have a voice in the product's birth, as a full mem-

That's the way it's starting to be at Philips. No mere theory in the executive suite, van der Klugt's new dedication to design is spreading to all the company's 12 product divisions. company's 12 product divisions.
Two levels below van der
Klugt, Francois Dierckx, head
of his within the audio division,
eagerly draws diagrams of the
growing saturation and technological maturity of several
product markets to explain why
he has radically upgraded the
role of industrial design since
he took over in 1981. In hist.

pany's "heavier" product lines, where the scope for industrial design is far less obvious, it is beginning to be treated by engineers and commercial staff as more than just cosmetics. Though the first initiative taken with these divisions by Philip's new design chief, Robert Blaich, was largely styling—a corporate image harmonisation programme

image harmonisation programme for all "professional equipment"—he recently helped persuade three of the units, including data systems and telecommunications, to take a more far-reaching step and begin co-operating on the development of TV monitors.

Though Bla it "Concern"

Slow-footed leviathan

The upgrading of design at Philips, into what van der Klugt calls "s strategic tool, as well as an operational one," forms part of the company's widely publicised attempt to transform itself from a slow-footed, technology-based leviathan into an altograther sprightligt heart altogether sprightlier beast which can not only respond quickly to market wants but

can create them. "The market itself never demands anything in consumer products," van der Klugt argues.
"You have to come np with concepts which it will accept." product development process is now design," he claims, Jan Tollenaar, his opposite number in the personal care section of the small domestic appliances division, goes even further, talking in terms of industrial designers acting as "product managers" — co-ordinators of the development team.

This requires the commercial assigned to be responsible for the contre's work for particular designers, and with beyond the end of their noses rather than to rely just on high-reporting to them. They were development engineers, in particular, have resisted the designers "reporting to them. They were development engineers, in particular, have resisted the designers that they should be reported to integrate themselves divisions, and with beyond the end of their noses rather than to rely just on high-reporting to them. They were designers that they should be given an especially valuable role of industrial designers division, goes even with its excessively expensive further, talking in terms of industrial designers acting as "product managers" — co-ordinators of the development team.

major product changes, involving costly investments.

In the lighting division, too, industrial designers have begun to initiate or co-ordinate the development of some highly successful new products.

Even on some of the company's "heavier" product lines, where the scope for industrial design is far less obvious, it is beginning to be treated by engineers and commercial staff as more than just cosmettics.

Which designers can play.

The gradual transformation of industrial design which is now under way at Philips, from a styling tool to something far more substantial, had begun before late 1980, when Bob Blaich was headhunted from his consultancy in the United States; for many years before that he had been design director of one of America's most than just cosmetics. Herman Miller.

But, reporting direct to van der Klugt, Blaich has given valuable impetus to the process and especially to the process and especially to the growing readiness of engineers and marketing staff right down the organisation to involve his designers as equal members in their teamwork from the very start of the product develop-

which a designer's seniority was determined not only by his technical expertise and experience, but also by his forte as a manager. Six "design managers" were created, each meaning to he responsible for the people concerned," says



the people concerned," says Blaich. He admits that some

But Dierckx's reason for wanting direct contact with Blaich's designers also has a more posi-tive side. It helps "hring to-

Giving birth to a new shaver

going for much smaller shavers, on the usual Japanese principle of pre-cision miniaturisation.

All of which strongthened Nagelkerke's hand. Unhappy with the ergonomics of the 1980 shaver, he also wanted to get back to or even below—the size of the previous line of machines. Given the need for extra power and extra transmissions for each of the three twin blades, this was a neetty bill order.

of the three twin blades, this was a pretty bill order. Leaving extra room for all series of future electronic features, including automatic voltage selection, it meant the engineers would have to develop a new type of motor which was less than half the size of the one in the 1939 model.

The development engineers were understandably not amused, but with his marketing colleagues behind him. Nagelkerke used sketches and models to win a series of arguments—and to justify the expenditure of millions of dollars on the new motor line and other improvements, at a time when Philips group profits were in a notedive. At little more than half the weight of its predecessor, about a fifth shorter, and with its heads at a more comfortable angle, the new machine is much more convenient to hold and to use. Nagelkerke also wen a

Nagelkerke also wen a hattle for the use of better quality plastic for the shaver's

quality plastic for the shavers-casing. Thermosetting, used for 25 years, provides problems in production, breaking easily and coming out of its mould with rough edges. Thermoniast, which Nagelkerke advocated, gives a

Nagelkerke advocated, gives a much more precise surface and is easier to make in varied thicknesses.

Again he had to fight conservatism, in fais case from preduction eaginests in Philip's North Holland shaver plant. His weapons in a more general struggle to improve the quality of manufacture included nearly crafted chopsticks, which he took into the factory to illustrate Japanese

wicks, which he took into the factory to illustrate Janneso dedication to the meticulous treament of high-quality materials. The effect? "It was rather a fight — almost as tough as over the motor. The factory people weren't used to things like that".

THE NEW Philishave (on the left in the illustration) is a triumph for Peter Nagelkerke, the moustachioed young Dutchman who was design manager on its five-year development programme, which ended last year with the shaver's launch in the U.S. and on the Continent (It arrives in British shops in May). In almost every way it represents a considerable advance on its much larger and heavier 1980 prodecessor (right).

The personal care division may have to follow many other parts of Philips in speeding up its innovation cycle if Japanese competitors weigh in with a faster flow of products. But at present it is sticking to its established pattern of launching a new shaver every three years. shaver every three years, after a four-to-five year

So in 1978, when the com-pany had almost completed the development of the 1980 model, its first shaver with twin "retractor" blades (as opposed to single blades). Nagelkerke was already beginning work with an inter-disciplinary team of engineers and marketing men on its and marketing men on its

The marketing people had wanted the 1930 product to look different from its predecessors in order to communicate to consumers the technological innovation it contained. So the designers provided a streamlined shape, with the blades not at meanly. provided a streamlined shape, with the biades not at nearly, 90 degrees to the stem of the shaver as in previous models, but emerging more directly out of it. To power the extra hlades, the 25-year-old motor design had to be "stretched" and enlarged. The result was a heavy shaver which was awkward to use. But a portion of the market found it. of the market found it extremely attractive, and it sold well. It still does.

The trouble was that, as consumer tests showed only too clearly, the rest of the market disliked it intensely. Which made the divisional team nervous, since Philips has always aimed to give its shavers a very general appeal. This had to be restored if it was to avoid dangerous competitive attacks—not only from its arch-rivals Braun and Remington, but also from the

courses

Law of buying and selling, London. April 17-19. Fee: £414/ £437 after April 3. Details from JK Van Wycks, Seminar Divi-sion, Crown Eagle Communica-tions, 2 Bloomsbury Place, London WCIA 20A. Tel: 01-636 0617 Teles 206397

European banking conference, Milan April 1112, Fee: £400. Details from the Financial Times Conference Organisation Times Conference Organisation,
Minster House, Arthur Street,
London EC4R SAX, Tel: 01-621
1355, Teler: 27347 FTCONF G.
What is the repertery grid?,
Brunel April 12-13, Fee: 1250,
Details from The Secretary,
Management Programme,
Management Programme,
Brunel University, Uxbridge,
Middr UB8 3PH, Tel: 689556461.

Computer integrated manufacturing and the effects on production and inventory control.

Coventry, May 10. Fee: Members £112.70 and subsequent delegates from one company £7.50.

Details from Seminar Secretary, BPICS, 3. The Square, Sawbridgeworth, Herts, Tel. 0278-723554.

bridgeworth, Herts. Tel: 9278
723554.

Principles of professional salesmanking, Brussels. May 14-18.
Fee: Non-members BFr 58,000:
Details from Management
Centre Europe, Avence des Arts
4. B-1620, Brussels. Tel: 02-219
03-90. Telex: 21-917.

Productivity forthiques — the
state of the art. London. May
24-25: Fee: BLM individual
members and collective subscribers £195-50; non-members
£218-50; Details from Conference Dept. BLM Management
House, Cottingham Road,
Corby, Northints NN17-11T.
Tel: 05963-4222.

Financial management of
research and development,
Buckingham May 15-16. Fee:
£220 blus VAT: £155 plus VAT
for the \$600nd and subsequent
nominations from the same
organisation Details from Brian
Twiss, IMCB, The International
Management Centre from Buckingham, Northern Office 198/
200 Keighley Road, Bradford
BD9-4/G. Tel: 0274-499821.
Telex 51317.

Marketing management course,
Brussels May 21-25. Fee: Nonmembers RFr 60,000; members
(AMA/I) BFr 54,000. Details
from Management Centre
Europe, Avenue des Arts 4,
B-1040, Brussels. Tel: 02-219-03
90. Telex: 21-917.

Marketing for profit — new
approaches, London May 16.
Fee: Members £126.50; nonmembers £143.75. Details from
Joanna Dean, Institute of
Marketing, Moor Hall, Cookham,
Maidenhead, Berks \$1.6 90H,
Tel: 06285-24922.

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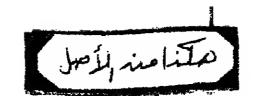
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THE ARTS

Architecture Colin Amery

In two dimensions

It is an exciting event when a large part of the top floor of the Centre Pompidou in Paris is given over to the subject of architecture. The exhibition, Images et Imaginaires backs of the architecture the D'Architecture (until May 28). Paris is given over to the subject of architecture. The exhibition, Images et Imaginaires
D'Architecture (until May 28),
must be one of the largest displays of Images of architecture
seen recently in Europe. It is
not an exhibition of drawings
exclusively by crebitects but a
chew of designs photographs show of designs, photographs, graphic art, stage and cinema designs—all genres inspired by architecture.

Cities Monday March

BY CHRISTOPHO

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Of course there are a great many architects' drawings: drawings that have had an incredible influence on the look of the 20th-century city and on the way that each generation looks at the artefacts of the builder. The time-scale of the exhibition is a long one. The whole of the 19th and 20th century comes under examinacentury comes under examination. It is a review of the architectural drawings on the surface but underneath it is a study of architecture as a reflection of society.

Because architecture is such a difficult subject to exhibit successfully there is an increasing interest in The Drawing as ing interest in The Drawing as the only easily portable evidence to display for public constitution. I am often tempted to wonder whether the rising interest in architectural drawings can be paralleled by the declining public interest in the declining public inter three dimensions:

The Pompidou Centre offers an interesting example of contemporary architectural creation as a background to some of the finest drawn examples of architectural achievement of the next time action. ment of the past two centuries. I personally loathe the building as a public place of enlightenment and culture, although I can see the versatility of the technology. I find it less appeal-ing than the Eiffel Tower as an

centre provides a regular series of good exhibitions, that in themselves indicate that the style of the Pompidou was just another passing fashlon. The new Lloyds of London is by the same architect and when it is finished it will be intriguing m see whether the technological language of the early 1960s has edvanced significantly.

The current Pompidou show has been conceived to demon-strate the great richness of architectural imagery created in Enrope in the last 200 years. In the tradition of the mixed media, multi-disciplinary events that the Pompidou has per-

Colin Amery visits an ambitious show in Paris

fected, this exhibition make no fected, this exhibition make no very strong statements. Probably the most definitive is the decision to show the works in a series of small rooms within a generally Post Modern design. It is amusing to enter the hideous portals of the centre through a mock classical entrance attached to the metalwork. The exhibition design doesn't win in the interior itself doesn't win in the interior itself where the batteries of pipes, tubes and wires always eppear to be looking over your shoulder.

The organiser of the show. Jean Dethier, sees the works on the walls as representing the difference between the built and

One for the Road/Lyric Studio

Michael Coveney

strangely spartan office. He is some sort of police chief who defines his job as keeping the world clean for God. He entertains a tattered, bruised and bloody prisoner. Victor. He refers to the wisbes of the man who runs this country and to the fact that "some of his boys" have violated Victor's house and to some classic printeresque interrogatory passages. Victor, played with noble, passive incredulity by Roger Lloyd Pack, is told by Bates that everyone around here has fallen in love with his tragedy.

New Sadler's Wells

Opera's G & S festival

in London

This summer NSWO pre-

sents its first ever Gilbert and Sullivan Festival at Sadler's

Wells Theatre from June 4-July 21 featuring a new produc-

ledged that it becomes increasingly impossible not to banana republic. But the pley is contemplate the political not specific in that sense. It is ugliness of the world. Bates as Nicholas is discovered in a another, which is: look, these strangely spartan office. He is terrible things are happening

In characteristically elliptical tion of HMS Pinafore. Style, Pinter marks out the distance between people. For the first time in a play of his, however, the State, the regime or whatever, is a factor. Bates quoffs whisky, treating himself "first" for NSWO when it to "one more for the road," tours The Mikado and HMS while elucidating what appears to be the one solid charge hath for a two-week season.

to be the one solid charge Bath, for a two-week season against the couple; their seven from July 24 to Angust 4. New Sadler's Wells Opera is sponsored by National West-In the third scene, the boy

baic. He feels as do many of us, that the public has been traumatised by modern erchi-tecture—particularly by the arrogance and elitism of the professionals—and that there
must be a wey of establishing o
new visual imagery as a way
towards a new orchitecture.

It is o brave show and e serious etlempt to crack a particularly hard nut. No one in England has dared to put on an exhibition that has such challenging content or such thought provoking material. It is prob-obly too large a selection of images from 15 countries in Europe: from Schinkel in the carly 19th century to the fan-tasics of Fellini in the late aixties there are too many things to say. Too many lines have been drawn and too few of them connect or lead anywhere.

There connect or tead anywhere, There are two ways of look-ing at it all—sheer delight in the number end range of beau-tiful drawings and the infinite number of ways of looking at a work of architecture, or a solemn progress through the leons of the architectural move-ments of the last two centuries. ments of the last two centuries It is a lesson in the seductive nature of the drawing as a purreyor of Ideas, It is also a warn-ling that there is a third dimension to it all, that we lenore at our peril. Not to men-tion the fourth dimension— those creatures called Man-who hove to live, work and have their being in the creations of these archilects and artists, It is a rich experience and

worthwhite on the aesthatic and social/historical levels. What is highly debatable is wbether it succeeds in building any bridges between the two to in-crease our understanding.

Station which was first seen at the National with A Kind of Alaska. It is a very funny sketch for a London cab driver

and his radio controller. Bates is called up while cruising near

Crystal Palace. His condition is distracted, aphasiac. He has fallen in love with a rirl who.

Scarfe's debut as

opera designer

Opera has announced. Scarfe

wil design a new production of

Offenbach's Orpheus in the Underworld which ENO will pre-

sent at the London coliseum on

It is one of nine new produc-

tions and 13 revivals announced

for ENO's 1984-85 season, which

opens on August 28. In addi-

tion, the company will be re-

ducing seat prices to levels at the start of the 1983-84 season

Cartoonist Gerald Scarfe is to make his debut as an opera designer, English National



Shelagh McLeod in "The Hitchhiker"

Young Writers/Royal Court

Martin Hoyle

cap, but the Young Writers Festival at the Court's Upstairs theatre is quietly engineering a counter-revolution. The plays making up the current double bill are articulate, painstaking and might find their true niche on radio. Moreover one displays an ambivalent attitude to popular concepts of progress

popular concepts of progress that recalls an Ealing comedy in gentle rather than uproarious mood.

Jane Anning's Unity is e frigid, alcoholic drug addict of 20, terrified of sex following advances from her brutal father. She keeps her long-suffering older man-friend at arm's length, absently calling arm's length, absently calling him "Daddy", and creates an imaginary child companion/

Harold Pinter's new play at the Lyric Studio in Hammersmith pots a spot of welcome to be released. He asks after his theatre scene. It is a violent, disturbing, enthralling short play, beautifully directed by the author and boasting a performance of quite chilling ferocity by Alan Bates.

Pinter. himself has acknowledged that it becomes increase. Bates engages him in mild talk about aeroplanes. In the last scene, Victor is about to be, you or me? I'd go for me to be, you or me? I'd go for me to be, you or me? I'd go for me to be, you or me? I'd go for me lift I were you."

To make up a 45-minute programme, One for the Road is preceded by Alan Bates and Roger Lloyd Pack in Victoria Station which was first seen at the National with A Kind of the National with A Kind of desk is curlously suggestive of a sketch for a London cab driver Almost a documentary case-history, the play is virtually a

Eileen Dillon's The Hitch-

hiker left me uneasy despite assured performances and Tim assured performances and Tim Bickerton's evocative set, com-bining landscape and farm-house kitchen. The gentle lesson in love dealt out by rural Ireland to a visiting London girl of conventionally progres-sive views on such themes as ebortion struck me as faintly cosy, and too easily discounted the agonising that has prompled countiess Irishwomen, apart from their men, to cross border or sea in search of freedom of moral choice. But Irishness is more fashionable—or just more identifiable—than Englishness. If the outsider had been a streetwise black girl from an urban environment and her history, the play is virtually a more fashionable—or just more monologue for the girl with identifiable—than Englishness, occasional support from lover if the outsider had been a and doctor. Telling her own often patently deluded story urban environment and her adds a layer of ambiguity slightly beyond Sylvestra le villagers, would the reactouzel's as yet limited palette of emolional colours, and ultimately the piece strikes one as Court? Upstairs?

Keep it under your Phrygian long and repetitious. It would work well on radio, with reality and hallucination more sharply differentiated. Somewhat monotone, but powerful end wellwrought for a 17-year-old euthor.

only marginally.

The Hungry Ghosts/Old Red Lion

Antony Thorncroft

room of a Manchester pub. No room of a Manchester pub. No great design skill is needed to like an old music hall sketch of present it in an upstairs room at the Old Ren Lion, hard by although I do not think that the Angel in London. But then no great directing talent is is worth a guffaw C. P. Lee needed either in this very takes an affectionate and typical fringe production in which plot and drama only intrude in the last two minutes of upwardly mobile Pauline has the action. Up until then it is the best opportunities and takes the usual thing—the writer the action. Up until then it is the usual thing—the writer showing off his skill at amus-

By these standards The to their natural ages.

Hungry Ghosts is not dissapointing. Basically three to the Hungry Ghosts. ing. Basically three teenage girls make comment about their life in 1966 in the first act and in the second we see how 11 years have changed their attitudes. Predictebly the passive with a top price of £15.50 down to £3,50. innocent has transformed into the aggressive auccess, while unappeeling 30 minutes.

The action of C. P. Lee's sbort remaining stupid—she confuses play takes plece in an upstairs Mahler wilh Bob Marley. For much of the time it is

the usual thing—the writer showing off his skill at amusing or pertinent one-liners about contemporary society and actors capeble of assuming the manule of the young working play deserves, especially in the contemporary society and actors capeble of assuming the manule of the young working play deserves, especially in the

The Hungry Ghosts is a trilogy and C. P. Lee, with generous self-interest, is offering you the chance to contribute to the final scene—the girls now. On this abowing he will craft your contemporary jokes and insights into a light but not

Wee also have Sound-Houses

Wee olso hore Sound-Houses, wher wee practise and demon-strate oil Sounds, and their Generation. Wee have Hor-monies which you have not, of Quarter-Sounds, and lesser slides of Sounds. Direrse Instruments of Musick likewise to you unknowne, some sweeter than any you have . . . Wee represent Small Sounds as Great and Deepe: likewise Greot Sounds, Extenuate and Sharp: Wee make diverse Tremblings ond Worblings of Sounds, which in their Originall are Entire, Wee represent and imitate all Articutote Sounds and Letters, and the Voices and Notes of Beasts ond Birds. Wee have certoine thelps, which sett to the Eore doe further Heoring greatly. Wee olso hore direrse Strange and Artificiet Eccho's, reflecting and Artificiet Eccho's, reflecting
the Voice mony times, as if it
were Tossing it; And some that
give back the Voice Louder
than is came, some Shriller, and
some Decper ... Wee have also
meanes to conrey Sounds in
Trunks and Pipes, in strange
Lines, and Distances.
Thus Sir Francis Bacon, in
bis New Atlants of 1624,
describing with uncanny pressidescribing with uncanny presci-ence not merely the emancipa-tion of music three centuries

later from the traditional rules of consonance and tonatity, but also in startlingly accurate desoil the equipment and work of an electro-acoustic music studio of the mid-20th century. What Bacon did not forsee, since he missed recording from his remarkable list, was that virtuelly all of the most significant developments in the early part of the electro-musical age—the tape-recorder, stereo recording, the noise-reduction circuit, the the noise-reduction circuit, the silicon chip and now digital computer recording and the laser disc—have been for the benefit of the listener. Music is today reproduced with greater fidelity, more cheaply, and wore excited the silicon and more excited the silicon and silicon an on ever lighter and more easily portable equipment and is more widely available, than ever be-fore in its history. The com-posers who create the music, on the other hand, with a few notable exceptions, have so far tended to ignore the electronic revolution, or acknowledge It

That's not really surprising, Electronic techniques have hardly yet moved out of their infancy; traditional instruments, whose modern form la the result of centuries of adaptation and evolution, are not inst more familiar, but still offer the composer a far more sophisticated and expressive medium for his musical ideas, and above all are far more easily manimulated in performance, than a box of cir-cuits. Why forsake the thrill-ingly rich, subtle and intimate sonorities of the violin or oboe for the sine-tone whine of the

Dominic Gill reports on a festival week of electronic music

performing instrumenta com-posers who wished to work wholly within the new medium were confined to creating their sounds in the studio and recording them on tape. In 30 years, that genre has produced years, that genre has produced some fascinating experiments, but no more than half a dozen truly original and striking compositions — and audiences are agreed that even those suffer from the peculiar disadvantage, compared with live performances, of seeming somehow frozen, immutable, delivered without human intervention. Listening in the dark to sounds from 20 loudspeakers can be for a while, if the sounds are good, en exciting experience; but no one I bave met pretends that it can compere pretends that it can compere

pretends that it can compere to the experience of listening, even on record, to live performers shaping with their own skill and musical instinct a living work of art.

For thia reason, some of the most successful—and promising—experiments in the field have investigated ways of combining electronics with other media or with live performence. A New Macnachten concert, for ex-Machaghten concert, for ex-emple, carlier this month at St John's, Smith Square, mixed tape-music with visual imagesan audio-visuel collaboration between two composers. Atejandro Vinao and Richard Attrec, and the visual artist Horacio Monteverde, whose slide-show, synchronised with the music by computer, was cast by 16 projectors on three large screens. If the experiment is to be developed further, I should imagine it must turn to film or video, faster and less cumbersome iban slides. But it was, technically, a brilliant tour de force; and Vinao's Hendrix Haze is, I believe, even visually tradement of the most unadorned, one of the most accomplished tape-pieces to be made anywhere in the past

It was significant that last week's sixth annual Festival of Electro-Acoustic Music, devised and presented by Simon terised and presented by simon temmerson in the New Hall of The City University, offered a marginally greater number of works including live performers then tape-works pore and simple. Some of the most elementary "live" techniques. indeed, have produced some of the most effective and rewarding results. Ampli-fication is a commonplace synthesiser?

It was a question to which fication is a commonplace many composers could find no device; but imaginatively used, many composers could find no device; but imaginatively used, with multi-channel mixing to highlight and direct the moverevolution did not immediately highlight and direct the move- its place neturally in our con-offer any satisfactory new live ment of sounds around an cert halls.

euditorium, it can creste an antiphonal dimension more vivid and more complex than could ever be achieved by traditional means. (Perhaps the most sophisticated recent example of amplified soundprojection is Slockhsusen's opera Donnerstog, whose massive antiphonies, through more than 100 loudspeakers above and encircling the audience, are an integral and large acciting any of the second

very exciting part of the score.)
The live works of the Festi val's three programmes also seemed notably stronger, more concise, more confident of their desired effect: of all the tapepieces, only Dongerous Liasons by the young composer Simon Waters seemed to know its own waters seemed to know its own limits, and especially its natural duration—polished and well as they are, neither Luciano Berio's Chants parallèles nor Bernard Parmeglani's De Naturo Sonorum would lose enthing by beine enything by being pruned to about one-third of their present length. Berio's A-Ronne, by contrast, given by the excetlent amplified vocal ensemble Vocem in a staged version of the original score for five redio actors, is a dramatic essay in the composer's deftest and most colourful manner, without a redundant or self-conscious

gesture.

Bass Drum by Alan Belk, also sung by Vocem, accompanied by percussion and by their own vocal "percussion" on tape, is an exuberant soft-rock rome (sbedes of Laurie Anderson), quick, stylish end great fun. Javier Alvarez'a Temazcol for amplified maracas and four track tape was another serious virtuoso fun piece, splendidly played by Luis Toro, e genuine

electric parmership.

The latest in computer technology offers the potential at teast of still greater economy and flexibility. The basic blue-print for the sound distribution and modulation of Morton Subotnick'a The Wild Beasts for plane trambage and "clost plano, trombone and "ghost electronics" was contained in a ROM-chip only a few centimetres square plugged into a control box. It was a fairly primitive system, which gave fairly primitive results — the program runs in real time, uninterruptably, like a relent-less mechanical conductor, The next step, however, is to permit live and "intelligent" interaction between performer and com-

puter, Bouler's Repons for Instru Boulet's Repons for Instru-mental ensemble and computer synthesisers, developed et IRCAM in Paris, approached this goal from another angle two years ago; end it is, in various guises, essentially the goal to which most present-day electro-acoustic musical research aspires. The day may dawn sooner than we think when Bacon's extraordinary vision is no longer confined to experi-

The Way of the World/Greenwich

Giles Havergal's production of Congreve's great comedy is trimmed to a playing time of two and three-quarter hours.
This deprives us of a number of pleasant lines, but also sharpens up the plot mechanism, which in the first half of the evening can sometimes be clogged by

the wit.

When the lights go up, there is a table, centre, covered with a litter of legal documents and a litter of legal documents and surrounded by three young men dressed in formal present-day clothes and black bombazine gowns. Principally they are employed as scene-shifters, but sometimes take an active part in the business; for example, when Mirabell and Millamant bave agreed to exchange a marriage contract. change a marriage contract, one of them produces the docu-ment and hands it over. They

inclined to freeze into the attitudes of a tailor's dummy;

of his dialogue.

Avis Bunnage'e Lady Wishfort is none the worse for reminding us of bappy comic acting by other pleyers in the same, and similar perts. Rees) a younger and feebler

also enrich scenes that call for a crowded stage.

Millamant's acceptance of Mirabell's marriage proposal is beatutifully done by Paola Dionisetti, ber final undertaking to "dwindie into a wife" spoken with a proper understanding of the enrichagement with a proper understanding of the edition of Mirabell. David Foxxe makes a prize bull out of Sir Wilful, with a mahogany-brown fece and drooping when there's a maid to be groped, but uncertain on them after indulgence in claret. the consciously artificial words. Fainall's greet blackmeil act Rupert Frazer's Mirabell ia is so sternly done by Cieran is so sternly done by Cieran Hands that I half expected bim

attitudes of a tailor's dummy; to produce a gun.
but they are graceful attitudes and consort well with the grace distinguish Mrs Fainall from Mrs Marwood at the beginning of the play; but Julie Legrand as the one soon begins to show a basic niceness of character while Ann Mitchell as the other same, and similar perts.

The wits are nicely Johenna Kirby and Jill differentiated, Witwond (John Gould) a bespectacled intellectuel, Petulant (Richard Waitwell makes a splendidly comic Sir Roland.

Arts Guide

who runs this country and to the fact that "some of his boys" have violated Victor's house and property. Upstairs, some more of the boys are violating his

The wife, Gila (Jenny Qualye) appears in the third of the four short scenes. She does not know how many times she has been raped. Her father, now dead, was revered by Nicholas. Her father, he says, was a man of bonour who did not think.

In characteristically elliptical.

while elucidating what appears to be the one solid charge

against the couple: their seven-year-old son has kicked and

spat upon the soldiers.

Music/Monday. Opera and Ballet/Tuesday. Theatre/Wednesms/Thursday. A selective guide to all the Arts anday: Exhibitio pears each Friday.

October 24.

Music

Marie-Catherine Girod, piano: Chopin, Ravel (Mon). Salle Gaveau (563 2030). Ensemble Orchestral de Paris con-

PARIS

ducted by Jean-Pierre Wallez, Yvan Chiffoleau, cello, Philip Bride, viol-in: Haydn, Saint-Saens, Tchaikovsin: Haydn, Saint-Saens, Tchaikovsky (Mon 6.30 pm). TMP-Chatelet ((2334444).

Boris Christoff, bass with Lille's National Orchestra conducted by Jean-Claude Casadesus: Mussorgsky, Stravinsky (Mon). TMP-Chatelet (2334444).

[Nition Marchell viscon Chair Proc. 1

(233444).
Nikim Magaloff, piano: Chopin (Tue).
Salle Gaveau (5632030).
Bernard Ringeissen, piano recital
(Wed). TMP-Châtelet (233444).
Chamber Music - Herve le Floch, violin. Georges Pludermarker, piano:

in, Georges Phidermacher, piano: Leclair, Roussel, Pierne (Wed). Ra-dio France, Grand Auditorium (5241516). Tobestre de Paris conducted by Claude Bardon, Yehudi Menuhin, viohn: Bach, Debussy, Elgar's violin concerto (Wed, Thur). Salle Pteyel. (561 9639).

NEW YORK

New York Philharmonic (Avery Fisher Hall): Rafael Kubelik conducting. All-Smetana programme (Tue). Lin-coln Center (674 2424). Musica Sacra Orchestra and Chorus (Avery Fisher Hall): Richard Wes-tenburg conducting, Kathleen Bat-tle soprano, James Bowman coun-tertenor. All Handel programms tertenor. All Handel programme (Mon). Lincoln Center (8742424). chestre Nationale de France (Carnegie Hall): Lorin Maazel con-

Beethoven, Shostakovich (Wedj. (2477458).
Merkin Hall (Goodman House): Hiroko Ohki piano recital, Ravel, Schubert, Beethoven, Mozart, Liszt, Paganini (Mon): Rachmaninov Trio.
Rachmaninov, Arensky, Muczynski, lppolitov-Iwanov (Tue); Yoav Chad Chamber Ensamble. Crockett, Lauthander Trib. W. of Broadway.

Michaela Petri Trio (Terrace): Handel, Lorenz (Mon). Kennedy Center (2549895). National Symphony (Concert Hell): Herbert Blomstedt conducting Haydn, Brahms (Tue, Wed, Thur). Kennedy Center (2543776).

CHICAGO

Chicago Symphony (Orchestra Hall): Margaret Hillis conducting, Faith Esham soprano, Hilda Harris mezzo-soprano, David Britton tenor, Michael Devlin baritone. World premiere of Darion/Laderman's A Mass for Caio (Thur). (4358122).

w Orleans Philharmonic (Carnegie

Hall: Philippe Entremont conducting, Yellm Broniman, piano. Weber. Beethoven, Shostakovich (Wed). BRUSSELS

VIENNA ridsen (Thur). 67th W. of Broadway

> (Thur). (721211). ITALY

Tonhelle: Tonhalle Orchestra, couducted by Gary Bertini with Martha Argerich and Nelson Freire, pianos and Dieter Dyk and Horst Hol-mann, perenssion, Bartok and mann, perenssion. Bartok ar Bruckner. (Tue to Fri). (2011580).

March 16-22 WEST GERMANY

Prankfurt Alte Oper: Claudio Arrau, Plano, Beethoven. (Thur). Berlin, Philharmoule: The Berlin Phil-harmoule orchestra, conducted by Audre Previn and pianist Vladimir Ashkenazy, Rachmaninov and Rav-el (Wed, Thur).

leveland Quartet: Beethoven, Shos-takovich and Brahms. Beaux Arts

Vienna Symphony Orchestra: conducted by Wolfgang Scheidt. Soloists
Jane March (soprano). Diane Elias (contratio). Thomas Moser (tenor).
Kurt Rydl (bass). Hindemith, Bruckner, Konzerthaus Grosser Saal
(Thur). (72121).

Borne: Teatro Olimpico: Piazza Gen-tile da Fabbriano: The Hayden Orchestra of Bolzano and Trento. Haydn, Petrassi and Weill. Wed. (393304). LONDON

London Symphony Orchestra conduct-ed by Yuri Simonov and Shura Cherkessky, piano, Tchaikovsky, Barbican Hall (Tue), (333 8391). London Philharmonic Orchestra, con-ducted by Klaus Tennsetdt, Mozart, Royal Festival Hall (Tue), (923 3191). hillummonia Orchestra conducted by Bernard Haitink with Salvatore Ac-cardo, violin. Walton and Elgar, Royal Festival Hall (Wed). Medici String Quartet: Alan Bush, Ahm Hoddinott and Edward Cowie (Tue). Purcell Room 6 pm. (928 3191).

opera, brightly refurbished. energetically prepared, and by Mark Elder superlatively well conducted, came back to the English National repertory on Tuesday. This is one of the works planned for the forth-coming ENO American tour; It is a canny choice, for Gloriana is a canny coolee, for Gioriana supplies probably the preeminent example of a postwar British nationalist epic,
"forged" (in Peter Evans'a phrase) in "some of the most ottractive nationalist music of our time." As such, it should add by tillentic and such it should add by tillentic and such it should add by tillentic and some said by tillentic and such it should add by tillentic and said by the said and said by the said and s edd brilliantly apt finishing touches to a company picture painted otherwise with chamber-size Britten, G&S, moderodress Verdi, and Prokofiev. (The first American Gloriano will form, indeed, the U.S.

Even those like myself, who may still be troubled by the musico-dramatic false notes struck along the way, and by the sense of mechanical manufacture and even superior banality that affects the makeup of minor scenes and characters, must nonetheless ocknowledge, efter a showing as much filled with vigour and elation as Tuesday's, the distinctive achievement of the whole. This prodoction, more than any other in the Brilten stage history, bas effected the revaluation of a work previously neglected and

premiere.)

Colin Grahem's 1966 production of Britten's coronation state spectacle begins now to note are all there, but on Tueslook somewhat simplistic (perhaps the Norwich masque will lose that tinge when thare is further total refinement and rhythmic security in the choral singing, currently the perform-ance's weak spot). But there remains a great deal to edmire in the way Mr Graham bas commingled public

Producer Colin Graham 'has shaped

the drama's modern and archaic aspects into a fluent and colourful continuity' panoply and private emotion,

has shaped the drama's modern matched strength. Anthony and archaic aspects into a finent Rolle Johnson's Essex is superb this he has reflected with and tenderly poetic lyricism. remarkable sensitivity the best Nell Howlett's Mountjoy and of the score and of William Jean Rigby's Lady Essex are Plomer's libretto.

day a persistent clouding of the upper ones relative to the singer's warmly beautiful lower registers tended to throw a veil upon the Queen's more commanding pronouncements.

Gloriana/Coliseum

Max Loppert

At every moment, ahe holds the stage with telling artistry, yet she seemed too comely, too youthful in ber movements, to make fullest capital of those coups de théâtre dependent on the caprices of an ageing woman (the shock that Sylvia Fisher used to register in Lady Esser's stolen finery could hardly be repeated here, for Miss Walker looked simply too ottractive in lt). This is, so far, only a partial presentation but, in such passages as the conclusion of first and last ects, one of ineffable grace and radiance

The rest of the casting is at colourful continuity—in in impetuous passion, remorse, handsome, strongly lined and For the revival there is e new sung portraits; Elizabeth Elizabeth. This counts as one of Vaughan's Lady Rich is almost Elizabeth. This counts as one of Vaughan's Lady Rich is almost the most touching and accomtoo meltlesome (a future plished things that Sarah Gloriana here?); Alan Ople Walker has done in the theatre; (Cecil) and Richard Van Alian but it is not yet quite right. (Raleigh) bring bold definition The music, tailored with compenensive mastery to the diments of statecraft; and, in inished resources of Joan Cross's smaller roles, Malcolm Donsoprano, is handily compassed nelly, Lynda Russell and



Sarah Walker

Shelagb Squires distinguish conciousness. This is 37 excel-

themselves — only Norman lent Britten season at the ENO, Bailey's blind ballad-singer and Gloriona is by no means adds a touch of "cameo" self- its least rewarding instalment

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Monday March 19 1984

Mr Scargill's folly

the immediate future: but in the interests of its members and the interests of its members and the country, it is imperative that it know, below its rhetoric, that

It is now faced with calls for a national hallot from many of those areas where mineworkers have sbown, by very large majorities, that they wish to work. It must concede such a ballot: if it does not, the scenes of anarchy unleashed will multiply this week.

Deep radicalism

This cannot be what the NUM wants—not aimply on bumani-tarian or moral grounds, but on tactical ones. The fact is that the mineworkers are battering themselves against a brick wall —not of National Coal Board and Government determination, but of the brute facts of the market and the effects of technical change, which together dictate a reduction in capacity and in the size of the workforce.

The NUM cannot "win" the strike, even if it succeeds in coercing those of its members who wish to work not to do so. But the deep radicalism of its leadership and of many of its members can be put to good use,

The union can continue to ensure that the wages pald to its memhers remain a reflection of the bazardous, strenuous and essential nature of their work: that the benefits paid to them in ment are high; that tha redundancy payments are geoerous. In this regard, it was better served by the sbrewd combination of tough private (now Lord) Gormley than It has been by the truculence of Mr Scargill.

It can go further: it should press the NCB and the Gov-ernment to develop the same kind of new industry schemes which the British Steel Corporof large lump sums means a sensible short-term bonanza for the future traders in the nearest town, but industry

THE LEADERSHIP of the little else. A union which National Union of Mineworkers is unlikely to change course in the immediate future: but in the

the coal industry is not heing decimated. The need for coal is accepted by all: even if ciec-tricity generation were to be progressively taken over by nuclear power (and there are doubts surrounding that) its use as a feedstock is likely to guarantee its future. For the present, the leadership lacks the fiexibility and open-mindedness to consider alternatives to head-oo militancy or to recoghead-oo militancy or to recog-nise it may be wrong in its analysis: it may take a bumilia-tion over the next few weeks to encourage a change.

The NCB, too, has responsi-bilities. As many in it well know, for most of the period since nationalisation has meant

the industry has been cocooned from commercial pressures, a state of affairs on which Mr Ian MacGregor, the chairman, has made war. But he had better use the slow, patient tactics of a Fahius Cunctator than the juggernaut of a Hannibal: already, in the precipitate announcement of the closure of Cortonwood in South Yorkshire, he appears to have given the miners there a real grievance.

Right to work

The contraction of employ-ment in an industry as old as mining, with a culture as rich and honoured as it is, with the muscular toughness it engenders, is always likely to cause a deep spasm of rejection which is difficult to control.

The law must be upbeld: negotiations and public and thousands of police are to-amiability displayed by Mr Joe day in the coalfields attempting to guarantee the right to work. All sides must now be prepared to show as much reasonable-ness as they can muster if the next few days are not to result in more injuries, even deaths. The NUM leaders bave most to do bere, but the NCB and the ation has undertaken in Corby and other areas, with surprising success. Pit villages are, very often, largely dependent on the pit for work: the mere payment management must resume a considered distance between the control of the form of the form of the control of the form of the f sensible dialogue about the future development of

Europe's role in space ventures

next greet adventure in spece, the construction and launching of a manned space station to circle the earth. The proposal has been put to European Governments with characteristic American chullience by Mr. James Beggs, head of Nasa. ones processed more efficiently. The \$9bn (£6.2bn) project, be the difficulty is that any such said, would secure western plans take us to and beyond leadership in space for the present limits of human 1990s and would serve inter-knowledge, national co-operation. Mr Beggs should have heen

prepared for a wary reception.
At a guess, the Europeans
would have to spend some \$2bn
on their share in a space
station. Welcome though that
might be to aerospace companies, nearly every European Government is scratching around for money or trying to bem in public spending.

Besides, the public mood in Europe is not in favour of gigantic projects, and what is more, some Europeans feel they received a poor deal from the Americans in the last similar deai. It was they who designed and built Spacelab, a menned yehicle that was taken aloft last year by the American space sbuttle. Under the agreements Spacelab now is American property.

That does not, of course, constitute a case for Europe going it alone on any space station. The task is too big, and, for the foreseeable future, European know-how and experience are insufficient to it.

The present choice is between leaving the next steps in the conquest of space to the Americans or co-operating with

If co-operation it is to beand that still is a big "if"—
iopsidedness as in the case of Spacelab needs to be prevented. The Europeans are certain to be the smaller partner. But they must bold partner. But they must bold out for a fair share not only in the production of a joint space station, but also in its are taken, the costs and risks

have to derend heavily on an of spece exploration, together assessment of the benefits to with the technological spin-off be derived from the manned which is claimed for it, may to provide something in addi-tion to the ability to survey the space yields knowledge which, earth, for instance for map directly or indirectly, is ulti-making or prospecting for malely capable of practical and minerals. These tasks have profitable application.

AMERICA IS inviting the been carried out satisfactorily Europeans to join it in the by existing unmanned satellites. next greet adventure in spece, Men on e space station, it

Information

When all the available information has been welghed there still will come a moment when a decision needs to be made whether or not to leap into the dark. That decision should not be influenced by considerations of prestige or a blind determination to keep up with the Americans. Nor should the wish be paramount to provide work for research laboratories or the eerospace industry.
It can aiready be shown that

the early, highly risky phase of activities in space can lead into something more immediately practical. The simpler, unmanned satellites, besides their military applications, have proved themselves in surveying the earth and as relax points for telecompusitions. relay points for telecommuni-

cations.

In that particular field international co-operation is already a fact. A number of intra-European and transatiantic alliances exist between private companies; European satellites bave been started on American launchers, and the French-developed Ariane rocket is making a promising bid for similar business from

American clients. These are areas of space exploration where the money and effort invested by governments over a number of years is slowly beginning to pay off, not only for military, but also

utilisation.

Any decision for or against heavy for the private sector. Joining the Americans will The glamour and excitement

space station that the Americans have proposed. To be worth the effort it would have But the final test must be

HE 57th birthday of Sr Raul Alfonski, Argentina'e new President, passed almost unnoticed last week. Only a few faithful supporters gathered in front of Buenos Aires Casa Rosada palace to their congratulations.

Inside, the President sacrificed only a small slice of his working day to blow out one candle on an undersized cake.

Perhaps, as his aides insisted, remaps, as his agree massive, it was all meant to convey the essential bumility of a committed democrat—in sharp contrast to the self-importance of the generals who ruled Argentina until last December.

But another image persists: of e Government which, despite some remarkable foreign policy and buman rights achievements, is no longer applauded with the hubbling enthusiasm that greeted its installation exactly 100 days ago.

The reason is economic: Argentina's politically fickle and highly materialistic "silent majority" fears e sharp drop in its standard of living as it sees the Government grappling with a chronic inflation problem at home and a mounting crisis abroad over the country's buge

The deht crisis could have far-reaching effects, both for the Argentine economy end the international banks. The immediate problem stems from the Government's refusal to use its serves to reduce significantly interest arrears on its \$43.6bn of international borrowings. That could force U.S. creditor

banks at the end of this month to classify some of their loans to the country as "non-perform-ing," which would result in a cut in their declared first quarter profits. It would set an unfortunate precedent, for throughout the current Latin American debt crisis, the banks have somehow managed to keep their debts on a performing

At the end of last week senior government officials insisted that they wanted an agreement on the arrears before the March 31 deadline, but Argentine's refusal to pay has seemed designed, in part, to exert pressure on the banks for a rescheduling of its debt on relatively generous terms.

However, as e precondition former military juntas; he has or any rescheduling, the hanks aired the once-taboo subject of for any rescheduling, the hanks want the Government to reach agreement first with the International Monetary Fund on an economic recovery programme. An IMF team is expected in he has reached a peace agree-

Buernos Aires this week to start ment with Chile (the two what will be extremely delicate countries have a long-standing

Alfonsin's hundred days

Argentina: euphoria gives way to reality

Jimmy Burns in Buenos Aires on a growing economic crisis

is: how much?

debt repayments.

By the standards of any

He has ordered the court

nascent Third World democracy,

his achievements in such abort

a time are remarkable.

eventual negotiations with the ernment. But the key question British over the Falklands. Under a military Government, A fierce programme of re-trenchment could erode popular support for the Government, all these changes would have been unimaginable.

and create a head-on confron-tation with the trades unlon-Progress on the economic front has not been so rapidmovement, carrying with it the risk of a descent into potitical chaos which could destroy democracy and the prospects for possibly because of the sbeer difficulty of coming to grips with the problem and because the Government's first prior? was ection on buman rights. The Government has yet to unveil a detailed economic pro-

As it is, Sr Alfonsin is walking a political tightrope— watched closely by the military gramme and those policies it bas announced have not all —as he tries to restore a sense of dignity and freedom to a country that has for years lived been internally consistent. A key aim is to reduce in an atmosphere of fear and

inflation sharply—it is currently running at a record 436 per cent per annum — through a prices freeze. But the Government is coupling this with a commitment to increase real wages this year by at least 8 per cent, in the hope that the extra spending power will belp achieve its goal of 5 per cent GDP growth,

human rights violations, with the opening of mass graves and Inflation, however, has been rising rather than falling. the prosecution of those alleged to be responsible for atrocities; As part of the prices battle, the Government last week ordered a seven-day han on tha talks, for very high stakes. It is and still unresolved dispute of the severity of the problem, clear the Fund will demand over the Beagle channel); and since beef is to Argentines what austerity of the Alfonsin Gov- be has paved the way for tea is to Englishmen.

officials dismiss the recent price increases as a temporary problem but privately they admit to a dilemma— President Alfonsin is trapped on the one hand by the expecta-tions generated during the elec-

tion campaign when he promised a bold redistribution of income and increased social benefits—and on the other hy the growing realisation that tha state has been living beyond its means and needs a dose of austerity.

This is ahown most clearly by the country's budget deficit. Over the past year it has risen from 8 per cent of GDP to 17per cent, according to provi-sional Central Bank figures. A similar gulf between initial

expectations and barsh reality has confronted the Government in its international debt negotiations. When Sr Bernado Grinspun took over the Economics Ministry in December he appeared convinced that Argentina's return to democracy was sufficient to ensure the goodwill of the international financial community.

But in recent weeks the bankers' patience has been wearing very thin. The Minister's repeated assurances that "Argentina will bonour all its

debt obligations" have seemed increasingly hollow alongside mounting arrears and the absence of any clear-cut debt. The news that Argentina will

soon draw up an IMF letter of intent, as a prelude to a commercial debt rescheduling pro-gramme, has been greeted with, relief by the hanks. However, the Government's willingness to embrace econ-

omic austerity at the behest of the IMF and banks should not be over-estimated. There is no love lost in Argen-

tina for the international bank-ing community. During their years in the wilderness, the poli-ticians repeatedly railed against the banks for indifference to, or complicity in, the economic failures and political repressionof successive military Govern-Despite the economic strains

deal can be struck with the

weakness of the two institutions that have the greatest capacity to destabilise the Governmen the military and the unions. The armed forces with the

personality and in the relative

exception of an unrepresenta-tive fringe—have reached a guid pro que with the Government. The military has accepted the Government's court-martialling of former junta members (and about a dozen other officers) in return for guarantees that there will be no full-scale witch-hunt, for those responsible for human rights violations and the Falklands debacle.

The armed forces believe this is their best hope of keeping the country's military institutions more or less intact-but it. does not mean the military accepts that its past actions were politically or morally

This distinction is vital. It means the bulk of military officers are still convinced they are an important factor in Argentine politics and will continue to keep a close watch on Sr Alfonsin's performance.

As for more conventional politics, the constraints on the ruling Radical Party were underlined last week when it failed to push key union reform legislation through parkiament. The party lacks a majority in the upper house, the Senate.

The bill a modified version of which is expected to com before pertiament in May is a bold attempt to break the hold exercised over the unions for the past 40 years by houses kinked to the Peronist party, now the main opposition.

The legiciation propeses a system of direct union elections at branch level, with pro-portional representation giving a significant say to non aligned minorities. Nevertheless Sr Alfonsin

appears to have come round to accepting that some kind of historic compromise, with the current labour leadership is necessary, if his economic policies are to stick. He has already announced that he intends to secure a social con-tract with both sides of in-dustry to help implement a more effective prices and in-comes policy. omes policy. But, for the moment

and provided an acceptable Alfonsin's survival will rest on sal can be struck with the his shifty to convince the banks and IMF—most observers average Argentine that demo-here helieva that Sr Alfonson's cracy may involve sacrifice as Government should manage to well as freadom—and that this stay on its tightrope and con-belt tightening could mean solidate democratic institutions, much more than restraints on Public opinion polls show his intake of red meat. In his that Sr. Alfonsin's personal own words, for democracy to standing remains high. His function bere every Argentine strength lies in the force of his, must feel it will work."

ANXIOUS BANKS PRESS FOR A FRESH IMF AGREEMENT

ARGENTINA is now way behind other Latin American countries in coming to terms with its international debt.

While most other leading borrowers are well on the way domestic politics that it has not even been able to meet the conditions for draw-ing more than \$500m of the

drama does little mare than confirm the impression that its problems belong more rightly to the theatre of the absurd than to the annals of economic history. Nowhere else in Latin America did debt problems surface as 2 direct result of e war (the seizure of the Falkland Islands in 1982). Nowhere else has a central bank governor been thrown in jail for trying to renegotiate his else bave these negotiations taken place against a back-drop of general elections in which a military dictatorship was ousted by a democratic party with massive popular

ought also to have been able to escape the worst ravages of a debt crisis that has engulfed self-sufficient in energy and a net exporter of food. Even last year at the height of its political and economic crisis. Argentina managed to notch np e trade surplus of \$3.1bn. Thanks to strong grain exports in the first quarter, this year's surplus should be even higher, officials say. That Argentina now

to become the first major

ing interest on some of its package—it has paid no sub-stantial interest to bank-creditors since early last October. It claims that banks should extend new credit if they want the arrears reduced.

with the International Mone-tary Fund is needed.

American Development Bank annual meeting in Uruguay in the last week of March. This

would be too late for Argenprogress towards a reduction could mean that U.S. banks would escape the need to declare Argentine leans as non-performing. Many bankers believe, how-

ever, that it could take well into the second quarter to resolve the problem. This would mean that second-quarter profits at U.S. banks rebound as Argo loans are first put on and then taken off the "non-perform-

to win major concessions for its 1984 rescheduling package. The banks are worried that ncessions to Argentina ould undermine their policy of conceding lower margins

Argentina will never come to terms with the IMF. But after nearly two years of frustra-tion and confusion, some are beginning to worry that the reality Argentina presents at the end of the day will be that its finances are even less sound than Sr Grinspun, the Finance Minister, would have the world believe:

Peter Montagnon

debt-for example on foreign bond issues and on the \$1.1bn tina to reduce its arrears by, the end of March deadline but short term bridging loan the whole continent. It is

to sorting out their financing needs for 1984, Argentina has yet to sign a rescheduling of debts falling due as long ago as 1982. Throughout that time Argentina has been chronically short of fareign \$1.5bn credit arranged hy creditor banks to see it through the worst days of

In this sense the latest

support.
Theoretically, Argentina

Latin American borrower to let its interest arrears run for any length of time at more than 90 days has only heightened bankers' sense of the

Although Argentina is pay-

For this, however, the banks' negotiating committee, which is chaired by Citibank,

The most optimistic scenarlo is that an agreement could be sewn up at the Inter-

Even so. Argentina faces difficult talks with its bank creditors from whom it hopes

and longer maturities as a reward to countries which perform well under their IMF Programmes and in servicing their debts.

Few bankers believe that

Venice triumphs, Sherwood profits

of Sea Containers, the shipping and container leasing company, a gamhle upon the good taste of the British public has paid off hendsomely at the eleventh

The Genius of Venice exhibition at the Royal Academy, which closed at the weekend, has finished in the black. It will make a modest profit, in fact, for the RA.

That is good news for the un-suhsidised RA which is also iaunching a multi-million pound appeal. And it is even hetter news for Sea Containers which also runs the Orient Express to Venice and owns the Cipriani Hotel there. Sberwood's group guaranteed

the show against loss up to a figure of £150,000. It now looks as if he will not have to hand over any cash. And, as a reward for his risk, he has enjoyed more than three months of excellent corporate publicity.

Mind you, it was touch and
go for the Venice exhibition. Up until a month ago the RA was getting fewer than the 3,000



Bndget ruined Twickenham -no beer np afterwards just arguing wine vintages with some Pontypool forwards"

Men and Matters

Then the queue's re-appeared, perhaps coaxed in by a radio advertising campaign. Such was the lete rush that the exhibition was extended by a week.

visitors e dey it needed to hreak even.

Then the queue's re-appeared, perhaps coaxed in by a radio advertising campaign. Such was the lete rush that the exhi-

Altogether 450,000 people paid about £1m to see one of the most flamboyant art shows

Race relations

The Boat Race had to he post poned on Saturday after the Cambridge boat hit a moored vessel before the start and snapped in two.

with Oxford and Cambridge back et the line yesterday, 24 hours later, tempers were becoming a trifle frayed as the start was again delayed for e few minutes. This time it was problems with the stake boats in the stance with

in the strong tide.

BBC television's commentary filled in grimly as time passed, finally showing a shot of the crowds et the finishing line. Said the commentator: "This is Mortlake . . . and these are people."

Eating out

Notice BN 2/84.

The scene in King's Beam House, the hq of the Custom's and Excise, when they learned of the Chancellor's intention to extend value added tax to hot food and drink "take-aways" might have been something like

of the department rests on your stomech. You have an unlimited expenses account. Get out there and eat. Find out what the man in the street likes hot, and report back." Our mythlcal Smithers rose to the challenge, and his work is enshrined for all time in

"Now, Smithers, the honour

have been taxed.

He even stretched his net to snare cups of soup and roasted chestnuts.

But hy that time even his strong civil servant's digestion must have been jibbing at the enormity of the task. The following passage will, f feel, survive in English literature long efter current legislation has been forgotten. "The incidental provision of coid items, which are not separately charged for, such as a dollop of the separate toward toward several constitutions." mustard, tomato sauce, or chutney, should be ignored."

As it is

The French publishing house Gallimard is wondering how much fiction will be left in the novel Baraka by the time it hrings out the French edition next month.

Since John Ralston Saul's latest tale of murky goings on in the international world of big business was published by Granada in Britain last year real life has been acting out its fictional episodes in an uncarny way.

The book is about the poll-

tical and commercial realities of Morocco, laced with drama in

the top management of a U.S.

oil major, and with Vietnamese offshore oil, and weapons for sale, added in for entertaining Even while Saul's fiction was considered for French publica-tion General Dlimi, the Moroccan figure upon whom Saul bases a fictional strong man was killed in Morocco by a rival. Then, last month, riots erupted in Morocco spurred by

religious puriets. In Saul's book fictional "puzitans" start such

a riot only to heve the govern-ment deny any religious con-nection—and so it was in real life.

But the most remarkable similarities with the real stuff come in the Vietnamese episodes. There life is almost falthfully following the Saul plot. Western oli companies plot. Western oli companies who found oil in Vietnam off-shore waters bave had to pull out and let the Russians And the Vletnamese are start-

ing a big sales drive to sell their cache of captured U.S. weapons and military equipment left hehind after the Vietnam war.

Haute canteen

The hotelier Tom Laughton (hrother of the late Charles Laughton, actor) who has died at the age of 80 at Scarborough
where the family ran the Royal
Hotel claimed that he loved the
life, and particularly the
ambience, of the Royal.

"In whet other business" he onceasked "could I have worked and also been able to live like a millionaire?"

Certainly ret in the husiness he was a ked to sat up during the war by Ernest Bevin, then minister of labour.

Bevin, who loved London luxury hotel comfort himself, asked Laughton to set up the National Service Hostels Corporation, and be its chairman. He huilt and ran hutted camps throughout tha coalfields to throughout tha coalfields provide a home for some 20,000 Bevin boys—young man con-scripted to work in the mines Laughton decided he would provide the cheapest food in Britain—but it would be reted with the hest. He evolved e ticketing system for what be-came the famous 5d (old money) snacks. For that sum a mineworker could buy such dishes, as beans on toast, egg and chips, and sausage and

mash. There was food at all hours and Horlicks at bedtime. Such high living today might bring the flying pickets down to earth.

Observer

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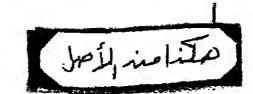
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FOREIGN AFFAIRS: EEC SUMMIT

Only if they act together

By Ian Davidson

BARRING ACCIDENTS, there is a reasonable chance that the BARRING ACCIDENTS, there government would be in the is a reasonable chance that the general long-term interest of European Community summit the Community. But while the which opens today in Brussels case for stricter budgetary dismay break the back of the crisis cipline and a diversion of re-which has been hanging over it sources away from the CAP to the past year. If it does, the detailed components of any emerging compromise are likely to look, in the cold dawn, like a tacky set of unsatisfactory compromises. But the hare fact, or the emerging presents of or the emerging prospect, of agreement may make it possible, for the first time in 30 years, for the member states to get back to the politics of Euro-

rees Monday March

pean integration. Complete agreement on all the outstanding issues is, of course, virtually inconceivable. Nevertbeless, the omens are reasonably favourable. The ten agricultur; ministers have made a start on a reform of the com-mon agriculture policy (CAP) with a get of fairly draconian measures designed to halt the Community's runaway dalry output. There seems to be a con-sensus, at least among the larger member states, that procedures must be tightened up to impose greater discipline on Commmity spending in future.
There seems to be a reluctant acquiescence to Mrs Thatcher's demand for some durable system to limit Britain's exces-sive contributions to that budget. Above all, and providing nobody

to the state of the same and the same anything excessively stupid,
there seems to be a mood
abroad that the time really has

> ment to settle. "Before the Athens summit," says a Commission official, there was an atmosphere of pessimism. Today there is a sense of agreement fever." But then Athens was a spectacutar star as the eye can see, we shall ar example of how badly a meeting can go astray when everybody, but everybody, says the wrong thing in the wrong munity start to rein back the

some for the heads of govern-

misjudge how far she can push the other member states. She believes, probably sincerely, and certainly with good reason, that most of the changes being demanded by the British

are logically unanswerable, other member states may baulk at Mrs Thatcher's vision of discipline, or fear they could not get it past their national parliaments. That is the danger of a crisis where the first oppor-tunity may also be the last.

Even if the summit were to go swimmingly, with all kinds of theatrical break-throughs, the effects on the Community's finances and the balance of its policies would be likely, even over the mediumterm perspective of the next five years, to be pretty meagre. If the Community is like a super-tanker, it could take about ten years to get it onto a sig-nificantly different course, unless there is a substantial expansion of its range activities.

Take the CAP. The farm ministers have made heroic if belated efforts to slow down the luggernsut of milk over-production. But the new production celling has been fixed some 13m tons a year obore consumption, and by the end of this year the Community experts to have accumulated a pects to hove accumulated a 1m-ton hutter mountain. Getting rid of this surplus, and of the 350,000 tons of heef stocks, will cost fabulous sums. In other words, the farm ministers were have the farm ministers. ters may bave risked maybem in the rural areas by starting to eurb the growth of over-produc-tion; but they bave done little to eliminate the over-produc-tion, which means that, for as

guarantees that of Europe, than it will bave to fork out larger sums for this time, too, Since this crisis presents not only the first opportunity, but also quite possibly the last, for the British government to push through long overdue reforms. Mrs Thatcher can be counted on to hang tough:

The danger is that she misjudge how far the content of th

Tunisia and Israel. All this sheds a rather grim The problem is that the light on the British demand British Government machine that agriculture spending feels much more intensely should get a deckining share of about the injustices and



Heads of Government et the last EEC summit in Athens

the Community budget. For irrationalities of the past than unless there is an implicit pros-pect of further reductions in the quotas for surplus products, Yet in fact, circumstances the chances must be that farm spending will continue to increase for several years of

If the British demand is to be satisfied, there seem to be only three options Either there must be a faster growth in non-farm spending, which runs counter to Mr Thatcher's iddes fires; or there must be legally blinding constraints which keep permanent pressure on the farm policy indefinitely; or else any replenishment of the Com-munity's finances must be kept so small as to ensure that this year's crisis is repeated in two or three years' time What it comes down to, is

that any successful deal will depend on a judicious mix of legally hinding constraints, public and unambiguous politi-cal undertakings, and initiatives at a higher political level which inspire and reinforce senti-ments of trust and optimism. Any government which attempts to limit the negotiation to legal constraints designed, like a dead man's will, to circumscribe the Community for ever regardless of circumstances, may doom It to failure.

than usual pressure to suppress and conceal any doubts they

might harbour about nuclear proliferation.

Teachers might be thought

John M. Johnson.

3. Holesden Road, Heaton Chapel,

Oil prospects

in Guatemala

From the President, Basic

leading impression of petroleum activities and pros-

Petroleum engineer. H.K.

estimated proven reserves in the contract area at 22m

has been exhausted.

and Mayan crudes.

article.

Resources International

Yet in fact, circumstacees have seldom been so propitious for a re-launch of the European idea based on genuine feelings of trust and perceptions of

common interest. That may seem ao odd thing to say in the middle of a mega-crisis which looks like all previous crises except that it is much bigger. Moreover, most previous crises bave simply turned out to be preparations for the next crisis. But after 17 years of stagnation and wrangling, there are serious reasons for thinking that there is now a convergence of conditions which could point to a different future.

The conventional wisdom is that the stagnation has been due to conflicts of ideology or to conflicts of national interest, or both at once. As far as it goes, the convectional wisdom is not wrong. In the swinging '60s, when rapid prosperity could have made everything easy, progress was ham-strung by ideological squabbles between the Gaullists and the federalists. Gaullism was attenuated under Pompidou and Giscard in the 770s, but now progress was ham-strung by the economic crisis and by the priority which each government gave lo national interest. But this conventional

wisdom does not go far enough.

For the most part, the zone

The conflicts of the 60s were due, not to ideology in the abstract, but to the gulf between the perceptions by the member states of themselves, of each other, and of Europe's place in the world. The Benelux countries knew they had no future except as part of Europe; Germany saw the Community as a way of exorcising the past; but De Gaulle's certains idee de la France, hased on the idea

that his country had a superior

role to play in the world, excluded the notion of political equality in Europe. By definition, Gaullism reinforced German dependence on the U.S. By the time Britain joined the Community, it had largely abandoned its global preten-sions, but its relations with the rest of Europe were bederilled both by renegotiation and by the narrow-minded distaste of the political establishment for

all of the political aspirations inherent in the Rome Treaty.

Meanwhile, the politico-economic disequilibrium of the Franco-German axis was acceotualed by German disdain for the economic incompetence of most of its partners, to say nothing of the extravagance of the Brussels bureaucracy. As we emerge from recession,

it is clear that many of these perception gaps have narrowed sharply. Not merely have the French stopped boasting how would overtake the

Germans economically, but even the Germans are becoming snxiously aware that their economy may be vulnerable in the hi-tech revolution.

Behind a residual facade of Gaullism, France'a political priorities have radically shifted. Not merely has Francois Mitterraod taken dramatic steps to reinforce the military-security relationship with Bonn, but he has invested more personal energy and political capital than his predecessors would ever have dreamed of doing, in his efforts in bring about a settlement of the Community crisis. The debate over nuclear

weapons and Nath strategy has certaioly played a part in bringing French and German per-ceptions closer together. But is anxiety over the volatility and unpredictability of American foreign policy, and over American egoism in economic policy. There was a time when transatlantic quarrels were treated as family rows—tire-some but not fundamental. Today it has become more diffi-cult to evade the idea that vola-tility, unpredictability and egoism are the inevitable con-sequence of the American character multiplied by the U.S. political syslem, and that they are less and less likely to be tempered by the efforts of an internationally - minded professional elite in Washington.

Such a diagnosis, in a period of East-West tension and economic stress, would demand that the European countries should take energetic steps to sequire greater leverage over their environment, economic-ally, politically and militarily. This they can only do if they set together.

From the collapse of the European Defence Community in 1954 to the present day, the strongest glue bolding the European Community together has been the commercial interest which came from trading and horse-trading. Today's The key to interest rate differentials is the culmination of lts biggest-ever horse-trading struggle. Perhaps it will explode in rage. But even if it does, the new, external factors forcing the Europeans closer together will still, inexorably, be there.

There are clearly suncient. There are clearly suncient international ss well as domestic uncertainties for one to hope that the Chancellor will remind the House in his winding up speech that interest rates and the U.S. is already experiencing can move in both directions, an \$80hm per annum current account deficit, the downside about public sector borrowing. summit is the culmination of

Lombard

Decoupling from U.S. rates

By Samuel Brittan

"In contrast to virtually the whole of the post-war period, UK three-month and longen intermonth and long-term rates are now lower than American rates. As long as American rotes remain near their current levil, it is highly destrable that this advantage be maintained."

Mr Nigal Lawson

Mr Nigel Lawson, UK Budget Speech, March 13. SINCE the British Chancellor SINCE the British Chancellor uttered these words key UK interest rates have falten further while U.S. interest rates have continued in rise. At the long end of the market U.S. lone term Treasury bonds have yields well over 2 per cent higher than their British equivalents. equivalents.

It is important to ask how long this discrepancy can con-tinue and whether it can widen further. For there is a clear risk of U.S. interest rates moving higher, even considerably higher. The U.S. recovery is

continuing to surpass expecta-tions, while inflationary expec-tations are gathering fince.

Contrary to much wishful thinking the Fed is not following an interest rate policy, but an imperfectly specified target-ing of monetary aggregates, with obligations to "stop. look and listen" If the Fed funds rate threatens to exceed sensitive points, such as 10 per cent recently. Although the Fed will avoid embarrassing the President unnecessarily, the main constraint on its action is fear of the impact on developing of the impact on developing country borrowers; and that constreint is not absolute, especially if a falling dollsr is giving these countries allernative relief. Congressional action on the budget deficit is

Fortunately, there is no rigid link between interest rates in different centres. While a posi-tive differential of New York over London may be novel, such differentials have been common and much larger in relation to other centres with traditionally

more likely to benefit long rates than short ones, if it occurs,

strong currencies.

The key to interest rate differ-

risk on the dollar is quite high. The dollar was pushed up for much of 1983 in part by the feet-thst it was likely to go higher. for reasons of confidence and political stability. as well as better investment prospects in the U.S. These favourable factors are no longer so prominent. Thus the odds are that for most of the time expectations about the dollar will be sufficiently bearish to allow interest ciently bearish to allow interest rates in the other main centres to remain substantially below New York.

But clearly the prospect can-not be guaranteed. Any number of events can occur to restore for a short or long time, the attractions of the dollar. These range from an international crisis to events in the presidenrial elections or in Congress, or Fed action which persuades the market that it will be able to prevent a major fresh inflation

If and when such a confidence If and when such a confidence resurgence occurs, the UK. like other countries, would still be able to attempt a tow interest rate policy. But the condition for so doing would be that sterling would have to fall so far that the market expected its next move to be upwards—in other words a deliberately conthat the market expected its next move to he upwards—in other words a deliberately contrived undershooting. Unless sterling started this episode from a very high level on the weighted average, or the episode was expected to he hrief, the inflationary risks of such a policy bardly need underlining. If any such painful choice is required, it will be time to remember that although there is no target for the exchange rate it is nevertheless given a role in the prose of the Medium-Term Financial Strategy quite as important as either of the two targeted monetary aggregates.

gates. The exchange rate constraint will be limited but not abolished if Europe and Jspan co-ordinate their Interest rate policy so that the trade-weighted average of any one currency falls much less than its rate against the

dollar.
There are clearly sufficient international as well as domes-

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meanly realist. struction industry? 1. भद्र चटल सर्वाच्छा You quote the offshore supplies office's (OSO) estimate that in 1982 UK industry's share in red a de of the UK sector offshore con tracts was 73 per cent. As you point out, this is a gross figure and if foreign ownership of UK and if foreign ownership of UK companies were taken into account, the UK share would fall substantially (probably to about 30 per cent). For some purposes — e.g., estimating employment creation — the 73 per cent figure is the appropriate one to use but for others. Peter W export capabilities — it is mis-leading. I am concerned that too much reliance is put on the higher figure (which if it were accurate would be very encouraging) and that the govern-ment bodies concerned with the

offshore industry have conse-quently become complacent about the need to increase UK involvement both in domestic and overseas markets.

The export possibilities for the construction ludustry, in the form of production plat-forms and modules, are geo-graphically limited. This is not generally regarded as the high technology end of the offshore will be faced, source or last industry and most countries with offshore fields, such as China, believe that they are capable domestically of building such structures, with relatively Asserted records This little foreign help. Also, these ltems are very costly to trans-port and the UK has relatively high labour costs. The main ex-

port opportunities lie at the high technology end of the in-The UK presence is generally weakest in the higher technology sectors. Much greater interest in that export market has in fact been shown by French and Norwegian firms rather than UK. Further, a large proportion of the UK firms actively pursuing the Canadian market are in fact the UK subsidiaries of foreign firms.

G. A. Mackay. 34 Morningside Groce, Edinburgh, Scotland

Town Hall staff

From Mr R. Legge Sir,-Further to Mr Law's comments (March 14) one must query the outcome of the Government policy to reduce lts grants to councils compared with the stated objective of this "rate capping." In my area, and in many other areas, coun-cils have met the loss of Government finance in two ways. Rates

on husinesses and householders

Letters to the Editor

good part of the shortfall, which should concern us if we Essential services and employ value our freedom. A sinister ment in them, from hospitals and schools to help for the aged and libraries have been and are being reduced.

At the same time scarcely any bureaucrats in the town balls have lost their jobs although they are presiding over shrink-ing essential services and unnecessary expenditures continue on a large scale, ranging from the well publicised antics of the GLC to the provision of expensive sports centres and playing fields although the existing sports facilities have been sports facilities have been shown to be grossly under uti-

This outcome is precisely what any ordinary citizen could foresce and the supposed objective of more cost effective local government is, not surprisingly as far away as ever. Cynics might observe that, in any case, the real objective was simply to reduce the public sector borrowing requirement.

R. F. Legge. 87, Penshurst Gardens,

Pupils and peace

studies From Mr J. Johnson

Sir,-If, by following a course of "peace studies," pupils are learning to reject noclear weapons on British soil it certainly does not follow that the teachers are necessarily incompetent or subversive.
This administration has

poured considerable sums of money into producing and distributing, free of charge, vast quantities of well produced material which is clearly intended to persuade the ignorant that current inclear-based "defence" policies are right and proper. Unforminately none of this

material comes anywhere near explaining how nuclear missiles could ever be fired in defence of this country. Field Marshal Lord Carver is not alone in pointing out that the threat to respond in kind to a Soviet preemptive first strike on, say, Greenham Common lacks credibility. The inevitable Soviet response would utterly destroy. sooner or later, the population of these islands. Our American allies, for their part, are not going to retaliate on our behalf and thus risk a nuclear counter-

Nuclear deterrence works-but not for us. Whether or not this line of than would otherwise have been reasoning is correct it is the oil reservoirs, when discovered, 1, Pu netessary in order to make nature of the official response contained 30 per cent water. EC4.

attack on their own beartland.

injected with water at the periphery, a technique that lacreases the estimated recovery of the oil in place from the usual 15-20 per cent to approximately 50 per cent. We believe the article ossly exaggerated the grossly value our freedom. A sinister process, more reminiscent of totalitarian regimes, is now under way in our own demo-cracy. Civil servants of all kinds seem to be under more

physical conditions and political difficulties associated with working in Guatemals. There were minor, rare attempts to interfere with the pipeline during 1981 and early 1982. There was no inteference with production of any significance. In our opinion, none of these incidents was political. It is true that Elf Aquitaice

especially dangerous since some of them imagine it is part of their duty to teach people how to ask awkward questions. Since as operator, spent up to \$28m in drilling one well. This, however, is not the norm in Gustemala. Indeed, the previous operator on Block No. I never nohody can really prove that lessons are never biased the object of the current campaign spent anywhere near that amount in comparable drilling against "peace studies" is clear at the outset. In practice all real discussion will be banned from the classroom and that will and recent estimates have been received from third parties that such wells could be drilled at less than half the expenditure by Elf Aquitaine. suit the campalgners very well. For, like their parents before them, children will learn to John D. Park. leave all that sort of thing to the experts and, like previous

New York 10019. pre-war generations, tha young-sters of today will never know what hit them.

Publish and be

damned From Mr R. White

Sir,-The Inland Revenu issued a Press release on February 29 regarding the publication of a list of bodies, the subscriptions to which would qualify for tax relief. In itself a laudsble project and one for which accountants have been pressing for some little time. The Press release, however, contains a sting in the tall

Sir,—We were disturbed hy the article "Elf reviews pros-pects in Guatemaia," which appeared on November 10, 1983, particularly during a year of because we felt it gave a misunprecedented consultation and discussion on the shape of pects in Guatemala. Basic Resources International pioneered oil development in referred to is to be protected by Crown Copyright and is not to be reproduced in whole or in part without permission. Similar copyright constraints Guatemala. The following, we hope, will enable a more accurate assessment. earlier major consultative docu-ments including those which van Foollen and Associates has

contain a significant quantity of

barrels, as opposed to the esti-mate of 14m reported in your I would welcome some clarification of Inland Revenue policy on this issue. In prin-The life span of the reservoirs is far longer than ciple I cannot see why any material published by the Inland Revenue either for con-sultation, as a booklet to ex-plain aspects of taxation or ss one year, contrary to the statement in your article. All reservoirs are producing; none a statement of practice, should be subject to copyright pro-It is not at all unusual for crude nil to contain hydrogen sulphide. The sulphur content of visions, I would have thought Gustemalan crude is low in comparison with Venezuelan

draft legislation.

It is not true that the crude | Roger White. 1. Puddle Dock, Blackfriars,

tion can be justified.

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FINANCIAL TIMES

Monday March 19 1984



Terry Byland on Wall Street

Time ripe to ring in new era

dustry was unfortunate in timing its current upheaval to coincide with the most severe post-war shakeout on Wall Street.

The break-up of the Bell Telephone system together with the sudden acceleration in computerbased telecommunications technology, opened the way to dramatic op-

But just as the 1982-83 bull market was led forward by the new high-technology based stocks, so the sudden downturn in prices this year has seen those same issues taking the hrunt of the punishment.

In the case of the telecommunications groups, the setback may have been overdone, according to Wall Street analysts. Taken as a group, the telecommunications leaders have lagged the Standard & Poor's 400 stock index since October, with the gap widening since Christmas when the industrial stock market began to fall in earnest.

The sector was depressed before the rest of the market because of its own particular clutch of uncertainties. These comprised chiefly the possibility of action by Congress to regulate the industry - and therefore inhihit the opportunities for newcomers to seize the initiative in new technical developments - and prolonged uncertainties over the stance of the Federal Communications Commission (FCC) on charges for access to the national telephone

But now, with the proposed legislation recently defeated in Congress and the FCC's stance clarified, telecommunications stocks could be poised for recovery.

The settlement of the turmoil over access charges is beneficial for MCI Communications, which bas performed erratically in the stock market since plunging last August when the FCC's first written opinion differed from its comments at the public bearing.

also caused a slowdown in commercial customer contracts with MCI because of hints that AT&T was considering a 10 per cent price cut for long-distance calls. Alarmed also by a sudden jump in MCT's costs for leased AT&T lines, Wall Street hurriedly downgraded its profit forecasts to around 83 cents a share

revenue flow likely to accrue as the will visit Moscow in May for talks tary, is due to visit the Soviet Union beginning of equal access to telephone networks swells MCI's list of

Mr Harry Rosenthal, who monitors telecommunications stocks at Bear, Stearns, says that if 25m of the 193m U.S. telephone subscribers are offered a choice of vendors of long distance telephones this year, then MCI would need to win only 2 per cent of them to increase its customers by one third," and swamp its facilities." He believes that MCI is now a 25 per cent earnings growth company.

The greatest beneficiary from the

shake-up in the U.S. telephone in-dustry is Northern Telecom, the Ca-nadian equipment manufacturer which sells less than one third of its output in its bome country. U.S. revenues jumped by more than one quarter last year, boosted by the conversion in North America from analog to digital switches in the in-

But Northern Telecom's stock ran ahead of the market towards the end of last year and has suffered. perhaps too severely, in the 1984

With strong existing contracts with the Bell companies and an or-der backlog of \$1.5bn at the end of last year, further earnings progress is likely. Wall Street forecasts for 1985 range to an increase in earn-

ings of around 25 per cent.
The dismantling of the Bell network bas thrust the new Bell Operating Companies (BOCs) into unfamiliar areas, presenting opportunities to the equipment suppliers. Anixter Bros, which warehouses and distributes the 10,000 different types and sizes of cables on which the telaphone industry depends, moved quickly this year to become the first non-affiliated distributor of Western Electric, the former manufacturing arm of the old AT&T

group.

Anixter followed this up by arranging a joint venture with Cincinnati Bell which enables Anixter to

nati Bell which enables Anixter to master the inventory system of the Bell system. With the BOCs unprepared to bandle the appallingly complicated inventory management which Western Electric will no longer supply. Anixter looks set for profitable growth.

There have been signs in the stock market that the technology sector is girding itself to lead a general recovery. It may be that investors should eschew some of the more futuristic technology stocks in favour of the bread and butter stocks. Telephones are unlikely to go out of fashion as quickly as video games.

The state of the s

France's trade deficit widens to FFr 4.6bn

BY DAVID HOUSEGO IN PARIS

lasting turnround in its external account bas emerged again with the disclosure of another bad trade deficit in February of FFr 4.6hn (\$569m) on a seasonally adjusted basis.

This brings the accumulated deficit for the first two months of the year to FFr 10.2bn against FFr 43.4bn for the whole of 1983 and an official target this year of bringing the trade account into balance as a result of the Government's austeri-

The Government blamed the shortfall on an unexpectedly sharp rise in gas imports (up 25 per cent on January), rising imports of petrol products (up 10.5 per cent on the previous month) and a slowdown in food exports. But after the decline in the deficit to a monthly average

FRANCE's difficulty in achieving a of FFr 1bn in the finel quarter of last year, the acceleration in January and February to a monthly average of FFr 5bn marks a serious reversal of last year's improving

The disappointing trade figures come on the heels of other February statistics politically damaging the Government. Unemployment in February, also on the basis of statistics released over the weekend, rose 8.6 per cent on a 12 month record of 2.19m

Reflecting the growing number of redundancies in industry, the new rise in the number of jobless means that the Government has effectively abandoned its election pledge of holding unemployment below the

On the basis of the 12-month fig ures, the increase in the level of unemployment has been rising over the last four months from an annual rate of 2.9 per cent in November to 4.5 per cent in December, 5.6 per cent in January and now 8.6 per cent in February. This follows a period in October and September when the rate of increase in unemployment was still falling compared with the 20 per cent annual rate that the Government inherited on

coming to power. The other bad February figure was a 0.7 per cent increase in the month-on-month consumer prices index. This brings the accumulated increase for the first two months to 1.4 per cent compared with an official objective for the year of bring-ing the increase in inflation to un-

Warner to buy back Murdoch stake with aid from Chris-Craft

BY WILLIAM HALL IN NEW YORK

CHRIS-CRAFT Industries, the New York-based television and industrial products company, could boost its stake in Warner Communications, the troubled U.S. entertainment

group, to 29 per cent. This follows the defeat of Mr Rupert Murdoch, the Australian publishing magnate, who had been trying to win control of Warner. Chris-Craft, which stepped in to

help Warner defeat Mr Murdoch last December, announced over the weekend that it was underwriting a \$72m Warner rights issue of conver-tible preferred stock which will be used, along with extra bank borrowings, to repurchase the 5.57m Warner shares held by Mr Murdoch's News Internation

Mr Murdoch's decision this weekend to accept Warner's \$31 per share offer for News International's 8.5 per cent stake in Warner, will net his group a profit of more than \$40m on its shares plus an additional \$8m for its expenses.

In return, News International has ers to invest the company's reagreed to drop all litigation against Warner, and not to buy shares or try to influence management in either Warner or Chris-Craft for the

The move is a setback for News International's U.S. expansion plans. Mr Murdoch, chief executive of News Corporation, News International's parent, said he was "disappointed" that Chris-Craft had been unwilling to sell its 23 per cent stake in Warner to New Interna-

We would have much preferred

to he a buyer rather than a seller. At the time we purchased the shares we made what we boped would be a long-term investment. That investment subsequently became the focus of extensive litigation. Because we saw no expeditious resolution to the conflict, we

sources in a more productive man-Mr Steven Ross, Warner's chair

which, he said, would end "the costly disruption of Warner's husiness. The group, which lost \$417.8m on

revenues of \$3.4bn in 1983 primarily because of problems at its Atari home computer and video games unit, will probably have to borrow an extra \$100m to buy back the News International stake.

Chris-Craft said yesterday that its majority-owned subsidiary, BHC, had agreed to take up its share of Warner's 7 per cent convertible preferred stock issue and would also purchase any stock not subscribed by the rest of Warner's shareholders

Following the issue, Chris-Craft and its subsidiaries will possess bebelieve it is in the best interests of the News Corporation's sharehold-of Warner,

Genscher plans to visit Moscow

BY JAMES BUCHAN IN BONN

with Mr Andrel Gromyko, his Soviet counterpart.
The Boan Foreign Ministry,

which received the invitation from Moscow last week, is modestly bopeful that the Soviet leadership is seeking to re-establish contacts with Western Europe after the sound and fury that followed the deployment of nuclear missiles in West Germany, Italy and the UK last autumn.

Herr Genscher will follow Sig

in June. Bonn officials have no illusions that Moscow is about to depart from its position that the new missiles must be taken out before valid arms control can restart.

They also suspect that, for reasons of face and because of the U.S. only by the surprisingly onpolemi-presidential election in the autumn, cal Gromyko-Genscher meeting in Moscow is not seeking formal contacts with Washington.

The invitations to officials of the three most important deployment Giulio Andreotti, the Italian For- countries can just as easily be seen and the talks on troop reductions in

HERR Hans-Dietrich Genscher, the Moscow on April 22. Sir Geoffrey to divide Western Europe from its But diplomats hope that Bonn

and its allies can use an evident Soviet readiness to keep up a dialogue with Western Europe to shift the immediate focus away from the They are encouraged in this not

Vienna, which immediately preceded deployment, but also by Soviet participation in the European security conference in Stockholm eign Minister, who is expected in as a continuation of Soviet efforts Europe which re-opened last week.

British payments key to EEC summit

Continued from Page 1 These elements all concur with

the preferred British approach, which goes on, however, to seek a system limiting payments on the basis of gross domestic product. Moreover, while Mrs Thatcher will want to start by agreeing a figure for what Britain's payments should be after EEC enlargement - she suggested 400-500m European currency units (\$345m-\$430m) at the abortive Athens summit - other governments want to start with an agreement on the size of any cut in British payments.

During secret foreign ministers' talks last week cuts offered by other governments ranged from Ecu 750m to Ecu 1bn. If Mrs Thatcher is required to negotiate on this basis she may well argue for a Ecu 1.5bn reduction while being ready to settle for Ecu 1.2hn. The lower figure would have left the UK paying about Ecu 700m last year.

other main budgetary issue of how to control EEC spending. France's that governments should set annual targets for overgarded as promising.

The UK seems confident of finding a formula for keeping the annual rise in farm spending below the annual increase brought about by inflation and economic growth in the EEC's available hudget revenues. In time this would cut farming's 66 per cent share of the bud-

Despite the broad success of last week's negotiations on farm prices and reform other prime ministers will also form minorities in pleading for special arrangements.
Dr Garret FitzGerald, the Irish

Prime Minister, has the hardest task in trying to win exemption from the system of milk production

World Weather

Agreement seems closer on the quotas agreed last week. Ireland wants to expand its dairy output said to be worth 8 per cent of GDP by more than 2m tonnes in the next five years. Britain and other govall spending growth is generally re- ernments, by contrast, only want to concede a small reduction in the 600,000 tonnes cut in Irish dairy production which the quota system

would impose.
Peter Riddell in London adds: Sir Geoffrey Howe, the Foreign Secretary, yesterday tried to reinforce Britain's "positive" attitude to the summit by repeatedly referring during a television interview to the widespread recognition in the EEC of the need to put different systems

He described existing French proposals for a partial rebate of Britain's EEC contributions as "unacceptable" and stressed that the issue of the refund for 1983 rested on a firm agreement

Peru 'to start repaying loans

Continued from Page 1 any new money from commercial bank creditors this year.

Its balance of payments deficit
fell by nearly balf last year to
\$882m from \$1.6hn in 1982. By next year it should have fallen further to

Response to Peru's new \$2.6bn rescheduling package has also been generally favourable. Commending the package to bankers in London, Mr Jensen forecast that Peru's economy would grow by 4 per cent this year. He disclosed that last year, bowever, output fell by 12 per | the area defied two injunctions cent in real terms - a worse performance than was expected.

extradition welcomed in London and Dublin By Our Political and Foreign Staff THE EXTRADITION at the week

McGlinchey

end of Mr Dominic McGlinchey, the alleged leader of the Irish National Liberation Army, from the Irish Republic to Northern Ireland was yes-terday welcomed by ministers of the Dublin and London Govern-

This is the first extradition for security charges, as opposed to ordi-nary criminal offences, and follows Mr McGlinchey's arrest on Satur day, near Shannon Airport.

Mr McGlinchey, who was yester-day being questioned by the Royal Ulster Constabulary, has been bunted in connection with the killing of a postmistress during a rob-

He has also claimed involvement in a wide range of terrorist inci-dents on both sides of the border.

The move will help to reinforce the recent marked improvement in relations between Dublin and Lon-don, especially ahead of the report due next month from the New Ireland Forum, the Dublin-sponsored body which has been examining new political options

The weekend's events should also strengthen the hand of Mr James Prior, Britain's Northern Ireland Secretary, against Conservative parliamentary critics of his security policy, although it will not alter Ulster Protestant criticisms of the

The extradition came immediately after a hastily summoned meeting of the Supreme Court in Dublin. which ruled in favour of implement ing its 1982 judgment which in prac-tice ended any distinction between "political" and other offences in many extradition cases

Previously, lawyers had argued that offences were political in char-acter and that under international law suspects could not be extradit ed to another jurisdiction. The court's decision represent

one of the most important advances in security co-operation since the enactment in the Republic of the Criminal Jurisdiction Act in 1978 which allows cross-border trials. Mr Garret FitzGerald, the Irish

Prime Minister, commented yesterday that the Supreme Court had decided that some offences were so grave that they could not be re-He added that it was "a sad day

for nationalism when murder is described as a political offence." Similarly, Sir Michael Havers,

Britains Attorney-General, yester-day spoke of his "great sense of re-lier" at the extradition. In a radio interview Sir Michael said be was very pleased at the speed of the court's action. The decision bas, however, led to

some disquiet within the opposition Fianna Fail party in Dublin, with calls for a long-term consideration of its effects.

UK miners resist calls for ballot

Continued from Page 1

who wished to work would be able

Sir Michael Havers, the Attorney General, said yesterday that the police would be "doing no more than trying to maintain the law" by turning back coaches and cars full of pickets - even before they had be-

gun their journeys.

He said that decisions to do so must be based on police judgement of how many pickets it was reason able to allow through to the pits. Calls for a national ballot have

now come from Nottinghamshire, Lancashire, the Midlands, Burham, North Wales, the white collar and several craftsmen's sections.

Mr Scargill and his senior colleagues have taken some heart from the voting figures in areas such as Lancashire, North Derbyshire and Northumberland which while falling short of the 55 per cent needed for strike action, do show a higher number in favour than in

the past two ballots.

He might decide to call for a reconvened special delegate confer-ence, the mechanism which imposed an overtime ban in December which began the present spate of industrial action.

This would have the advantage to the union leadership of giving it more time to launch a strong campaign for united action, and possibly then hold a national ballot when it judged a strike vote more certain.

The National Coal Board (NCB) will today press its action for con-tempt in the High Court against the Yorkshire NUM. It will claim that granted to it last week by not calling off picketing by its members.

THE LEX COLUMN

Tax trauma for UK clearing banks

Purveyors of hot eel pies and fresh, roasted chestnuts could be forgiven some confusion last week over Britain's new value added tax ruling on hot take-away food; but budget queries in this department were settled by the men from the were settled by the men from the ministry in pretty short order. The precise impact of the changes in capital allowances, by confrast, could take a little longer to resolve. Their impact on the leasing industry will be fundamental. Despite some supposed relief over the non-americance of a financial services.

tax, the clearing banks' shares have plummeted as a consequence. The City of London has seen a cottage industry spring up devoted entirely to quantifying the damage inflicted on the clearers' accounts.

Schroders did nothing to disperse scarcoders and nothing to disperse the fog the day after the budget by touching its cap to Mr Lawson and reporting profits blessed with £6½m post-budget windfall from its UK leasing subsidiaries. In short, the tax benefits of leasing have been enjoyed in a variety of ways. But for the clearers these benefits have for some years been a ride on the ti-

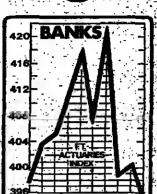
Rental income

Leasing has made little or no contribution to the clearers' reported pre-tax profits over the years. The epreciation of the leased assets has more or less matched the rental income earned. But the taxman has ignored the depreciation, having in effect rolled it all up into the first year 100 per cent allowance.

As a result, the rental income has

boosted the (pre-allowances) total taxable profits. To create a capital allowance sufficient to ensure another zero tax liability, the banks have therefore had to increase their investment in capital assets for easing. This has led in turn to bigger rental income, and so on.

To illustrate the present consequences, take a bank with static taxable profits from banking of £100m a year. Rental income climbing from £10m up regularly to £100m over ten years requires a £200m allowance, hitherto gained from extra leasing, to reduce tax-able profits to nil in year 10-If no addition at all to the leasing portfol-io is made after year 10, the bank's rental income in year 11 will not be far short of £110m and it will face a tax charge on this plus its £100m banking profits. Its real tax bill, that is to say, at a 50 per cent rate will actually exceed these £100m underlying profits - not just for year 11 but for a run of years until



Exactly this prospect now faces the clearers. And it has hit their shares like another crunching round of bad debts because, unlike Schroders, the clearers have never provided anything like a full deferred tax provision against the possibility of a rainy year.

This is not to say that the changes now imposed on the lea-sing industry by the budget look set to materialise over night. Dozens of major capital purchases seem to have been signed up within nine hours of Mr. Nigel Lawson's speech on Tuesday. But the haste was probably unwarranted. This year's 75 per cent first year allowance can apparently be taken together with the new 25 per cent declining bal-ance allowance and the corporate tax rate reductions. This all adds up to something of a bonanza year for leasing until March, 1985; post-tax returns to the lessor - assuming up have the merit of squaring best changed leasing rates - could actu- with the reaction of the stock mar-

In the event, lease rates in many cases have already fallen signifi-cantly, not least as a consequence presumably of the clearers understandable desire to squeeze as much volume as possible out of the market while it remains viable.

ferred tax provisions on this score minster. This will leave all four cap-roughly equivalent to a quarter of ital ratios uncomfortably close to

£2.4bn. Perhaps the one crumb of com-The impact of the higher taxes on fort for the clearers is that their viits leasing portfolio starts to de- al purposes, all of them will surely ulations might seem a storm in the

timately for them, the £24bn neither allows for residual new leasing business still left to them nor takes account of the falling corporate tax

If the clearers plump for a provi-sion equal to 60 per cent of the full liability and assume a 40 per cent tax rate, then their aggregate bill as calculated by stockbrokers Rowe and Pitman will be roughly £750m. and Firman will be roughly 1.70m. If they go for a 100 per cent provision by the basis of a 35 per cent rate, this year's topping up will cost them at least 1.70m, enough, were it to be taken as a current tax charge, to just all four of them into substantial net losses for 1984.

Common approach

This should keep the bankers, ing standards establishment busy for a weekend or two before December - producing it must be hoped a common approach SSAP 15, the accounting standard which is largely the basis of the present 25 per cent provisions could be used to justify a current tax treatment. The clearers, though, could equally reasonably argua that neither the resulting distortions to their earnings per share records nor any old-fashioned adjustments to reserves would be half as sensible as a series of straightforward extraordinary de-

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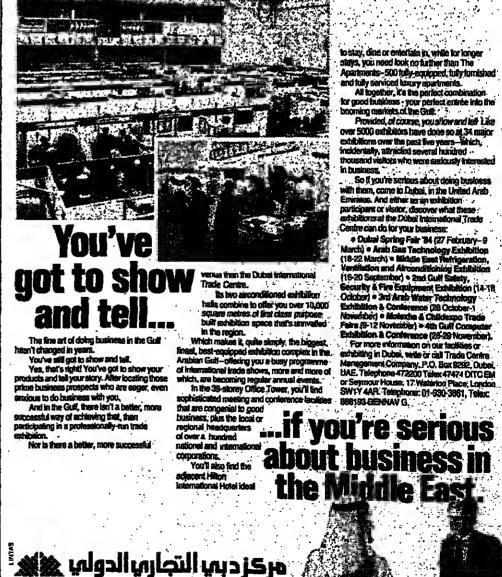
MIE TESTRY

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. The second course might at least ally be higher this year than before ket, where attention will anyway be focused less on this year's debacle than on the damage to the banks balance sheets and the implied contraints on future earnings growth. No doubt the Bank of England's

pre-budget homework gave some thought to the more accommodative market while it remains viable. stance on free capital ratios which
When first year capital allow may well be required of it if the
ances disappear altogether in 1986. £1%bn provision is adopted. Capital however, the clearers will almost bases will shrink very roughly by certainly have to confront their it £225m at Midland, £450m at Barclays, £340m at Lloyds and £460m Since 1981, they have all kept de- or rather more at National Westtheir potential tax liability. The re- the Bank's 4 per cent limit - and maining uncovered 75 per cent rep. could prompt closer strutiny of resents, on best estimates, about Midland's 150m dividend.

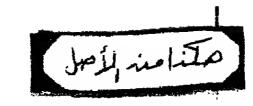
the banks' cash flow over the next tal equity to assets ratios at the U.S. several years will vary from clearer Federal Reserve have been struck to clearer depending on their port. after full deferred tax provisions alfolio income streams, but for accurready. At least in the U.S. their trib-



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SECTION III FINANCIAL TIMES SURVEY

Monday March 19, 1984

International Capital Markets

The shift of emphasis apparent in 1982 continued last year, with bond issues again easily outdistancing syndicated loans in volume. Bankers are responding to the changed environment with some radical innovations

RISING VOLUME IN THE INTERNATIONAL CAPITAL MARKET

Profound changes in structure

BY PETER MONTAGNON

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THE COMBINATION of high market is stealing their busiinterest rates and the developmess. Borrowers which used to ing country debt crisis has left raise much of their money in a seemingly indelible mark on the credit market have the international capital mar-swilched increasingly to the kets over the past year. Floating Rate Note, a bond After two years of great issue whose rate of interest

uncertainty the whole structure of the markets is undergoing issue business in the international bond markets again ran at exceptionally high levels, reaching more than \$75bn, or double its levet six years ago. At the same time volume in the syndicated loan market slumped. At \$73.9bn it was 310bn below the levet of 1982 and 550hn less than its peak in 1981.

It is hard to escape the conclusion from these figures that the securities market, which was long the junior in terms of volume, has now emerged as a more powerful force in the international capital markets than the syndicated credit

Certainly the early months of 1984 have produced an exten-sion of last year's trend. Dynamic new issue activity in the international bond markets has cootrasted starkly with a general stagnation of Eurohighly exceptional jumbo loans for oil companies contemplating

changes regularly in line with

that prevailing in the short-term money market.

According to the U.S. investissuance of Floating Rate Notes climbed to nearly \$14bn last year from just over \$11bn in 1982 and only \$7bn in 1981. From the borrowers' point of view such a trend is hardly surprising Floating Rate Notes carry lower interest margins than bank credits; they can te arranged for longer maturilles; and there is no risk that an upheavai in the International lenders to withdraw from the operation prematurely.

Satisfying clients

What is perhaps more surprising is that lenders which include many large inter-national banks should be prepared to forego some of the high returns avallable in the Eurocredit market for the sake of satisfying their clients' demand for Floating Rate Note finance. One frequently cited role and for the long term business they do have to make banks in the full awareness of instinction is that the debt development of the capital extra returns out of fees and the debt swap potential.

Indeed, hankers in the syndimustrication is that the debt development of the capital extra returns out of fees and the debt swap potential.

It all adds up to a capital certain glumly nowadays that the bond market escape able debt that has entered their ticipants are becoming more market in which the two main change.

afflicted countries have man-Rale Note n aged to service their inter-importance. bond borrowings long

after they had given up on their commercial bank debt. Yet there is an even more fundamental force at play. Faced with a need to reschedule billions of dollars in developing country debt banks are experiencing a reaction of distaste for cumbersome longwhich they can extricote them-seives only with great diffi-culty. There is a premium to

What is Important is that a bank which buys a floating rate note knows that it can also be sold restoring some of the flexibility to its balance sheet that was taken away by the debt crisis in Latin America. That the returns on Floating Rate Notes are low scems to matter little. Most borrowers in the Floating Rate Note market are top quality credit risks and banks need such business to offset the high-yielding, high-risk Latin American loans that are now stuck on their balance

This is not to say that banks

are the sole force behind the biossoming Floating Rate Note market. Its growth also owes much to the new found appetite among U.S. saviogs and ioan institutions which need money market related investments to match the high-yielding accounts they are now allowed to offer their depositors. These institutions have become a new markets, lending for the first time through the Floating Rate Note market to countries such as Sweden. But commercial banks have played an important

rescheduling. Most of the thinking through the Floating ilke lovestmeot bankers and afflicted countries have man-Rale Note market is of crucial less involved with straight com-

It has spread from the Figat-Ing Rate Note market into the surocredit sector itself where loans are increasingly traded market is still imperfect, but it is one way for a bank to improve Its balance sheet Ilquidity and earn extra profits. Imagine, for example, that a bank has an eight year credit to a European borrower on its books which bears interest at a margin of } per cent over Eurodollar rates. By parking the credit with another bank for a year at a margin of, say, per cent and using the space on its balance sheet to make another loan to the same borrower it is increasing its overall vicid without affecting its gear-

Potentially damaging

Tradiog of debt also extends bere banks are more because such business is only possible at a discount with potentially, damaging writedown implications for a bank's carlie loan portfolio to a given such as swear.

Some such as swear.

Some such as swear.

Some such as swear.

Rate Notes lo prepay more expensive commercial bank deht, but there is also an active market in debt swaps reaching market in debt swaps reaching to rescheduled loans, though

secoodary market trading of bank credits are impossible to that only a tiny fraction of total outstanding loans have actually changed hands. More important has been that the development of the secondary market over the past year has had a profound effect oo business atti-

Faced with a shortage of plain vanilla" jumbo loans, banks are now keep to use what

It is not just that the new concept of marketability bas changed the face of the syndi-cated loan market. Other factors such as currency movements have come into play. The old jumbo syndicated loan seems to have been replaced with a smaller more special operation designed to tap a regional or specific currency market just at the moment when funds are available. In recent mooths currency diversification has credits such as £500m for Sweden, ECU 450m for Haly's oil conglomerate ENI, C\$150m for Malaysia and SwFr 150m for

Spain.
Part of the impetus for this is obviously a perception among borrowers that they need to rely less heavily on the dollar as a horrowing medium. Indeed the soaring U.S. currency and high real interest rates have led most

fixed and floating interest sectors of the capital markets.

By swapping floating rate debt for fixed interest obliga-tions incurred by another bor-rower, even second line credit risks can obtain fixed rate fuods more cheaply than by borrow-ing directly in fixed rate markets. To do so, however, they need the floating rate deht In the first place and that has to be provided by commercial banks in the full awareness of

CONTENTS

World economy Balance of Payments trends The debt risis Funding the banks Floating rate notes The lapanese connection Deutsche-Mark bonds Swiss Franc bonds **ECU** bonds Project financing Export credits

compartments - bonds credits—are coming much closer together. Such a fusion of the two

World Bank co-financing

Syndicated credits

sectors has long been given ilp service in the banking com-munity. Now, in the aftermath of the debt crisis and high real interest rales, the two sectors of the market really do seem to have become interdependent, though it must also be said that though it must also be said that
the credit market has had more
to learn from the hond market
than vice versa. The question
is whether this is a passing
phase, Or has the market
structure changed for good?

A short answer is that
markets never look back. Just

as it would be incooceivable for foreign exchange markets to revert to their practices under fixed exchange rates, so it is unlikely that the capital markets will readily unlearn their new approach to business. certain is the pace of future

In the sbort run capital markets are still beset with to the bond market. great uncertainty. Many of the fundamental aspects of the developing country debt crisis remain unresolved. The dollar, which was riding high on ex-change markets throughout 1983, has now begun to weaken and Japanese surplus. in the face of the growing U.S. current account balance of pay-

On the political front pros-pects seem to be increasing that the U.S. may decide to scrap interest willbholding tax. Al a stroke this would undermine the justification for a separate bond market for U.S. borrowers in Europe, while many bankers believe that the Floating Rate Note market may have over-

ing that interest rates in U.S. may start to rise again as the recovery continues while Fede-

ral deficit remains at record

reached ltself. Experiments such as a 40-year issue for Sweden or the \$250m issue for the World Bank that was priced at a small margin over the U.S. Treasury Bill rate rather than the higher euro-dollar deposit rale may simply be more than the market can

At most, bowever, this could lead to a dowdown in the new Floating Rate Note issue level that was set in the first two months of the year. Few hankers believe that the market will wither totally as quickly as it biossomed, though it might run through a more difficult patch if, contrary to expectations, interest rates did that designed between the contrary to expect the contrary to the turn decisively lower. And even if margins on Floating Rate Notes do rebound from their lowest point, they would still have to rise a long way to catch up with the Eurocredit market.

Moreover, the pattern of now such that most imbalances

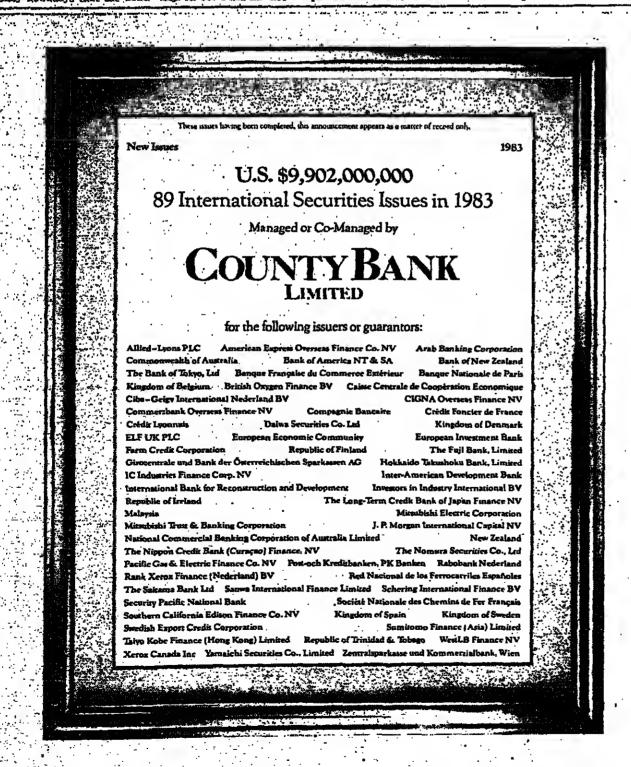
Not only are the developing countries running a much smaller industrial countries which bave provided the capital markets with much business in the past. Among the group of 10 richest countries France, Italy, Sweden and Belgium are also among those which have cut their borrowing needs from the capital markets by improv-ing their balance of payments.

Debt reduction

Not has the economic way of additional corporate demand for finance. Several years of high real interest rates have made corporate treasurers wary of incurring new debt increased cash flow resulting from a better business climate and the buoyancy of world stock markets last year to reduce their relative indebted-

From both the perspective of sovereign finance and corpor-ate lending the fundamentals in favour of much incremental growth in capital market business—unless, that is, banks and investment houses can find new ways of helping borrowers to reduce their financing costs on their existing debt and improving its maturity profile. It is a climate that calls for more inventiveness and innovation from both the bond and credi markets.

That means that hankers in the credit market cannot reasonably expect easily to recover the business they have now lost on their assets.



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Expansion slow despite U.S. recovery

World economy MAX WILKINSON

IT MAY be true that what is good for General Motors is good for the U.S. hut it is by no means so obvious whether the general benefit extends to Nissan, Volkswagen or Jaguar

Last year General Motors produced better results than most people dreamed possible in the dark days of the reces sion. The performance of the U.S. economy Itself consistently outpaced expectations during 1983. GM, along with the major part of the U.S. corporate sec-tor, bas breasted through the obstacles of high real interest rates and the trading disadvan-tages of the high dollar.

But so far the improved fortunes of the U.S. economy have had only a weak effect on demand in most of the rest of the world's developed economies. Only the UK and Japan managed growth rates of as much as 3 per cent, while the overage growth for the European continent was bogged down at 1 per cent.

This continued sluggishness, compared with U.S. growth of over 7 per cent at an annual rate in the second half of 1983. has been widely blamed on the persistence of high U.S. interest rates and the soaring dollar. Both are a consequence of the fiscal expansion which prodoced recovery of demand

At least until the early part of last year the general wisdom seemed to be that European governments were stretched on the rack of high interest rates because they dared not risk the inflationary consequences of a slide in their currencies against the dollar. If they let their domestic interest fall visà-vis U.S. rates, it was felt that exchange rates could suffer.

This Idea appeared to be reinforced by the dire troubles of the French franc in 1981 and 1982 and the sudden sharp slide of sterling from November 1982 through into the early spring of last year. In both countries interest rates were raised at different times to defend the currencies. In the putting up the import bills for UK, moreover, there was still oil and other commodities the memory of the autumn of terms of other currencies.



Regan, U.S. Mr Donald Treasury Secretary: need to reduce budget deficit after the Presidential elections

1981, when the authorities If the dollar had not risen, 1981, when the authorities if the dollar had not risen, pushed up bank base lending it was argued, oil and other rates by 4 percentage points prices would have been higher in two stages, mainly to defend in dollar terms, so that oil sterling and to prevent a resur-would not necessarily have been rates by 4 percentage points in two stages, mainly to defend sterling and to prevent a resurgence of inflation.

By last autumn, however, there seemed to be a more relaxed general view of the relationship between domestic European policies, U.S. interest rates and the dollar. A quiet policy of "delinking" had been pursued in West Germany, the UK and other countries, where domestic interest rates were edged downwards without catastrophic consequences for for exchange rates. Although the dollar continued strong, the feeling in the markets and among the authorities seemed to have changed, in two related

Competitive edge

First, there was a perception, articulated by the Organisation for Economic Co-operation and Development (OECD) in Paris (and by U.S. officials) that a high dollar was not necessarily bad for the rest of the world.

It gave other countries' manufacturers a competitive edge in U.S. markets and in third countries, where they were competing against American companies. It was also realised that the rise in the dollar was related to the weakness of oll prices and of other commodities priced in dollars to a greater extent than had sometimes been thought. The dollar was therefore exonerated from some of the blame for

Mr Nigel Lawson, UK Chanrectitude

cheaper in terms of other world currencies.

Secondly, sentiment in the preign exchange markets seemed to be coming more olive to the "fundamental" consider-ations affecting the value of currencies rather than the relative movements of interest For the dollar this meant that attention was more sharply focused on the rapidly growing current account deficit on the balance of payment, which is likely to approach \$100bn this

This underlay the almost universal conviction among Europsan central bankers and in U.S. official circles that the dollar would hove to fail "sooner rather than later" in 1984, and possibly quite steeply.

But a fall in the dollar will not be an unmixed blessing for the rest of the world. It will increase the competitiveness of U.S. industries, perhaps just at the time when domestic demand for their products is starting to tail off, It will also increase inflationary pressures in the U.S. at a time when the combined effects of a rapid recovery and a buge federal budget deficit may already be causing some acceleration of prices.

Against this, the burden of debt repayments by Third World countries, much of it denominated in dollars, will be substantially eased. But it may be premature for the richer nations to heave a sigh of re-

Banks should solve problems, not make them.

The indebted countries and

their creditors must remain Federal Reserve intends to anxious about the level of U.S. fund the deficit fully and stick interest rates for as long as U.S. to its money supply targets. budget deficits remain at around Overseas investors might therebudget deficits remain at around overseas investors might there should be prospected by the property of the property of the prospect of deficits falling from this level, the risk of a falling dollar. Nor does there seem much even if economic recovery conevidence yet that continued high real interest rates will stimulate savings and so lead to tinues at a steady rate. Mr Donald Regan, the U.S. Treasury Secretary, has made some general remarks about the need to reduce the deficit after the November Presidential election

a different equilibrium between borrowers and lenders. In the developed world last year the is out of the way. However, it remains to be seen whether the administration will have the stomach for the necessary fights with spending lobbies, even assuming that President Ronald Reagan is respected. particularly in the UK, this was the main engine of recovery.

Weak revival

Reagan is re-elected.

In any case, as the OECD has pointed out, there is bound to be a substantial time lag before Company profits bave in-creased rapidly in most coun-tries from very low levels, so that the relatively weak revival if the task is put in hand immediately after the Presidenof corporate investment in stocks and fixed capital has so For the next two years at least, therefore, it seems that

least, therefore, it seems that U.S. interest rates will need to remain high to attract domestic savings and foreign capital into Government debt funding. And a weakening of the dollar may push up U.S. interest rates. This is because a falling dollar will make U.S. Government bonds less attractive to overseas investors. For the time being, however, a large capital inflow is essential if the U.S.

(per cent rise over 12 months) 1982 1984 19851 Inflation (private Japan Total OECD Unemployment (per cent of labour force) Current balances (\$bn) -43 -82 Japan † First half at annual rate. Total OECD Source: OECD.

THE WORLD ECONOMY

back the recovery by depressing corporate borrowing and therefore investment below the levels it would otherwise, have reached, particularly in Europe.

Nevertheless, there is a firm consensus that recovery will continue during this year and continue during this year and at least well into next year. The OECD predicts that output will rise by 3½ per cent in the developed world this year, with the U.S. leading the way with growth of 5 per cent followed by Japan at 4 per cent. The prospects for the West German economy have recently been looking better and growth of 3 per cent this year seems well per cent this year seems well within reach, while in the UK the Treasury is also predicting growth of the same order. One of the major uncertain-ties must be whether the acceleration of growth will lead

larly in the UK, Japan and West Germany, with continued deficits.

In the U.S. there are already

1983

-24

-31

1984

Source: OECD

-42

To prevent this, a continua-tion of fairly tight financial penalty by the methods of the policies seems probable, partici-1960s and 1970s and would have little temptation to stray from the path of monetary virtue.

If that is the case, govern-ments are left with little option but to pursue a course of fiscal In the U.S. there are already but to pursue a course of fiscal signs that the inflation rate may be picking up somewhat from at any rate seems to be the conthe average of about 4 per cent clusion of most European govfor last year and financial eraments. It is being pursued markets have begun to be with enthusiasm by Mr Nigel anxious in case a future Lawson, Britain's Chancellor, Administration should find it and with almost equal strictness self imable to fund the deficit. —though much less enthusiasm presses. However, it may be that the

However, it may be that the that recovery is proceeding markets fears are a complete slowly. Unemployment seems deterrent to inflationary finance set to continue its rise in ing, for in the present climate Europe, though at a slower rate of opinion any substantial rise than recently, and the monal in the money supply would benefits of increased trade show prebably lead to a sharp rise in no sign yet of matching that of long-term bond yields. The previous cycles

Bulk lending opportunities diminish

to a resurgence of inflation

developed world

WORLD CURRENT ACCOUNT BALANCES

1981

÷10

1982

-16

-65

the

OECD

Opec .

countries

countries .

Balance of payments trends

PETER MONTAGNON

deficits are reduced, even

tial election.

CHANGING WORLD' balance of payments trends and the developing country debt crisis have combined to produce a marked shift in international banking flows over the past

international bank Total lending has begun to grow much more slowly. The Basle-based Bank for International Settlements estimates that it grew by only \$51.5bn in the first nine months of last year compared with \$141.2bn in the

corresponding period of 1982 and \$165.1bn in 1981. New lending to non-oil developing countries dwindled to \$8.4bn from \$14.7bn and \$23.1bn respectively. But it is not just because of

the developing country debt crisis that bank lending has slowed down. With the fall in oil prices and a reduction in interest rates that has reduced debt service charges the balance of payments deficits of many other borrowing coun-tries have begun to drop, re-ducing their need for bank finance. At the same time oilexporting Opec countries now face a balance of payments deficit and have given up their role as suppliers of funds to the international banking

With hindsight it is clear that some contraction in lending to ton-oil developing countries was inevitable. Before the crisis broke it was growing at an unsustainable level of about 20 per cent annually. When it became clear that U.S. Interest rates were set to remain high in real terms, exacerbating an already heavy debt service burden, banks had little option but to draw in their horns on lending to developing countries. surprise—and a disappointment—to a banking community seeking alternative outlets for loans is the way the needs of other customers have diminished at the same time.

While non-oil developing countries reduced their balance of paymeots deficit to \$45bn last year from \$65bn in 1982, the industrialised world is also littered with success stories on the adjustment front. France, for example, which has been a major borrower from the bank-ing system, ran a deficit of only FFr 29bn last year and this year expects its payments to be in balance.

Estimates from the Organisation for Economic Cooperation and Development (OECD) also show that Sweden cut its deficit to \$750m from \$3.5bn; Den-

mark more than halved its shortfall to \$1bn; Italy turned a deficit of \$5.5bn into a surplus of \$1.5bn and Spain reduced its payments deficit of \$3.5bn from

Non-oil developing

Other non-OECD

The result has been what the Bank for International Settle-ments calls a "two-tier market." ments cais a "two-tier market.
Lending to developing countries
has stagnated; what little
increase there was in the first
nine months was almost entirely,
the result of forced, lending
associated with rescheduling
operations. The other side of the market is a strong appetite for lending to industrial countries combined with a growing liquidity in the bank-

good lending opportunities For the first time in three ears banks in the U.S. have begun to absorb excess liquidity from the international banking system. During the second quarter of last year net flows of funds to U.S. banks totalled \$4.3bn; by the third quarter they had increased to \$10.3bn.

ing system caused by lack of

Fund suppliers

Usually, U.S. banks act as suppliers of funds to the market. The turnround, according to the Bank for International Scittements, had little to do with the growing balance of payments deficit of the U.S. (thought to have reached more than \$400n last year compared with \$11.2bn in 1982). Rather was it the result of the shortage of good lending opportunities elsewhere. Developing countries had Developing countries had become too risky, and credit demand in the industrial world The decline in the oil price, which saw Opec countries notch up a balance of payments deficit of some \$31bn last year campared with \$16bn in 1931, might have been expected to raise the borrowing needs of nil-export-ing countries. Yet as a group Opec nations increased their

borrowing only slightly in the first pine months of last year. According to the Bank for international Settlements they absorbed \$2.35m in new bank loans less than the \$7.7bn borperiod of 1982. Withdrawals of bank deposits by Opec nations have on the other hand been relatively high at \$13bn, although this clearly had little impact on overall international bank liquidity.

The shortage of Opec funds new deposits from developing countries which managed to increase their holdings of cash with Western banks by \$6.4bn

during the first nine mouths of last year. The supply of funds to the market was further boosted by net interest payments from developing countries as well as an increase in deposits by some smaller developed countries such as Spain, while by the third quarter Opec deposits had themselves begun to rise again, increasing by \$2.2 m. The overall effect, according to the Bank for International Settlements, was that banks in the main industrial countries that are traditionally net exporters of capital tionally net exporters of capital had begun to absorb it from the outside world.

" It is too early to say whether this is just a temporary pheno-

menon or whether it reflects a lasting recovery in the balance of payments position of the outside area countries, says the bank. Yet the OECD is forecasting

a further improvement in the balance of payments of borrowing countries this year. Non-oil developing countries are expected to record a further \$5 bn decline in their total deficit to \$40 bn; while the smaller in-dustrial countries will register a deficit of only \$3 bn compared with \$9.5bn last year. Oper countries will have a little changed deficit of \$32bn, while the U.S. is expected to show a significant deterioration in its payments bostion with a deficit of over \$80bm which will be partly offset in the aggregate picture by a much increased Japanese simples of over \$30bn.

Dynamic

Forecasts such as these have inevitable implications for the international capital markets. They suggest that the growth they suggest that the growth dynamic which came from the payments imbalances caused by the old strocks of the 1970s may be running out of steam. Shortage of business is one reason why banks are now looking more closely at areas that only recently were taboo, such as reason why many banks are actively buying floating rate notes despite their low yield compared with bank credits.

Indeed U.S. banks which have

been taking in deposits from the rest of the world are thought to be among the major buyers of such paper, alongside sapanese banks which are traditionally liquid and subjected to limits on medium-term lending imposed by their Ministry of Finance.

The problem is that holding

floating rate notes is not par-ticularly profitable for an inter-national bank. Now that balance of payments trends suggest traditional bulk lending opportunities are diminishing, banks face the difficult task of devising new, and profitable, forms of business to keep the capital

Securities have been offered outside the United States. This announcement appears as a matter of record only.

New Issue / February, 1984

U.S. \$100,000,000



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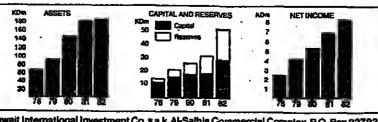
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Keeping the lenders better informed

THE INSTITUTE of International Finance is one of the only new organisations to be spawned by the debt crisis. Based in Washington its pur-pose is to keep the hanking system better informed about he economies of the major

borrowing countries.

Created last year the insti-tute has 187 member banks of all sizes from 39 countries representing more than 80 per cent of global lending to the developing world. Its managing director is M Andre do Lattre, a former financing agency Credit National who has also been involved in negotiating extra funds fer IDA, the soft lean arm of the World Bank.

Since January of this year member banks have had "on-line" computer access to the major economic accounts of some 20 countries. The sys-tem is expected soon to cover 40 to 50 countries which are indebted to the banking community. For each country the information is provided on an 80-line table which

term debt and payments arrears, as well as a wide range of macro-economic

The institute also intends to produce detailed economic reports on key betrowing countries and will be sending missions to some of them to establish direct contact with borrowers. In this way it hopes to facilitate lending decisions, particularly by smaller banks which lack the resources for in depth analysis play a powerful role in influencing commercial bent policies towards international lending. This will in part depend on its relationship the International Monetary

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Completion of Brazil package lifts sense of crisis

Third World debt PETER MONTAGNON

& a 311bn debt rescue package for Brazil may come to be regarded as a turning point in the debt crisis that has plagued the developing world for nearly

At least that it what senior international bankers and officials are hoping. The Brazilian package was put together against all the odds: t was the second time in a year that Brazil had turned to its reluctant bankers for help, and against a background of severe domestic recession its Congress proved reluctant to accept the harsh susterity demands of the international Moneeary Fund.

Now the package is complete the sense of acute crisis has lifted premitting both creditors and debtors alike to ponder some of the longer term prob-lems left in its wake.

lems left in its ware.

As the Governor of the Bank of England, Mr Robin Leigh-Pemberton, put it in a recent speech: "The day to day management of debt problems has become somewhat less difficult... We now, I suggest, have an opportunity and a responsibility to think more deeply about the longer term."

Yet this is far from saying, as he did a year ago, that the he did a year ago, that the

So far most of the packages organised for debtor countries in trouble have had the immediate objective of keeping them affoat financially. The cornerstone has been an TMF adjustment programme hacked up by rescheduling and new loans from banks and sometimes governments as well. Initially bankers hoped that such packages would suffice until a combination of lower interest rates and economic growth in adustrial countries floated the debtors gently away from the shoals of default.

Trade surplus But what was initially per-

ceived as basically a crisis of liquidity has now come to be liquidity has now come to be viewed as a more fundamental problem. The debt overhang is simply so large that it will take many years before most of the afflicted countries can rebuild their creditworthiness. Meanwhile a way has to be found for them to ablow their economies to grow while they continue to use up precious recontinue to use up precious re-sources in servicing their debts. Last year, according to Morgan Guaranty Trust, the

seven major botrowers of Latin America notched up a trade surplus of about \$30bn, but the shortage of new bank loans meant that this money had to be used to pay interest on foreign debt. For the first time since the oil price rises of the

creditors. The payments do not reduce their debt, but arise simply because banks are no longer lending enough to cover all the debtors' interest obliga-

resident of the World Bank, developing countries made net payments of \$12bm to commercial banks last year. Two years earlier they had received net transfers of \$16bm.

Worst still, the trade surplus that it being used to meet these payments has been achieved largely through cuts in imports. The seven major bornowers in Letin America last year held their important as the seven and an accordance to the seven accordance to the se their imports to e level 42 per cent below what they had been In 1981. Lower imports mean lower growth, and unless a means can be found of financing some import revival the countries concerned face years



and social tension,

As the debt crisis moves out of long-term problem. What is of about 20 per cent annual clear, however, is that the chances of radical intervention.

To reduce their depende

There is little political sup-port in the industrialised world for grandiose schemes that for grandiose schemes that effectively involve governments in buying the banks out of the problem by taking over their loans to developing countries. Instead, the basic approach is still a pragmatic one which involves adapting existing solutions for the longer term,

From the banks' point of view one of the most significant changes has been a willingness to accept a reduction of both interest margins and fees. At the same time the maturities on rescue packages have been lengthened to spread the burden of repayment well into

the future. The most dramatic example of this came with the \$3.8bn credit launched for Mexico in late December. The loan bears a maturity of 10 years, four years, longer than Mexico's previous

then the dollar. Oredit Commercial de France made its contri-bution to the latest Brazilian jumbo doan in ECus, the cur-rency basket of the European Economic Community.

a welcome opportunity to reduce total borrowing costs by diversification out of dollars, lenders which are not U.S. banks find their funding dependance on the eurodollar deposit is reduced.

There is, however, not much hope of a marked revival of international bank lending. Mr



cent last year, "a marked, be freed for the private sector, though necessary slowdown from the ansustamble rate of to now been neglected up to now been neglected up of about 20 per cent annually-

To reduce their dependence on bank lending debtor counforeign investment. Unlike loans equity investments do not have to be repaid. Says Mr Leigh-Pemberton: "There are no remaining financial obligations if a project should fail. There is a foreign exchange cost to the country only when the investment is productive and profits are remitted abroad—and in these circumstances

\$500 form and interest margins company them collects the have been cut by up to a full cruselyo equivalent of the form percentage point. Since them from the boxxower and uses the both. Chile and Peru have cheaply acquired local currency obtained similar, though less to fund its new investment. farreaching concessions.

Another change has been an to be an unprecedented revival increased willingness of both in foreign knyestment to make banks and boxxowers to the any significant impact on the sider the use of currencies other. debt overlangs. Like bank that the dollar Oredit Commerce lending direct investment in service charges may begin to be felt as the debtor countries lending by western govern-ments to finance exports to the

developing world.

But for this to happen trade volume needs to revive strongly. The key for developing countries now seems to lie
in their ability to expand
exports. The initial stages of
adjustment involved a radical
pruning of imports. If they can
move on to higher exports their
debt service ratios will improve
and there would be more room
to releat austerity with
increased imports.

"There the long run" says

Morgan Guaranty Trust, "the only viable solution for Latin America lies in expanding exports so that debt servicing capabilities are enhanced; flight

Export growth

This will require a more radical economic adjustment with the emphasis moving away from import substitution and towards more active export the debtor countries in reasses-sing the development role of the state so that resources can

scenario this process will still take several years. Meanwhile banks will have little option but on bank leading debtor count to stand by the debtors with tries are now being actively continuing amounts of new targed by western governments money and the whole debt to open their doors to direct situation will remain vulnerable to sudden upsets and

> On the macro-economic front the recovery in the western wurld could fizzle out, protec-tionism could dash hopes for higher exports; or interest rates could again move higher. Some individual debt problems such

and profits are remitted abroad
—and in these circumstances
the project itself may well be
generating or saving foreign
exchange."

Foreign investment can
involve a fresh flow of funds
to the borrower nation. Or it
can be used to reduce the existing overhang of debt. A bank loans of those of Argentina and the
Philippines also remain difficult and intractable.
Concludes Mr John Calverly,
an economist with American
Express International Banking
to the borrower nation. Or it
can be used to reduce the existing is no longer required, with to the borrower hation. Or it will be when formal reschedulting overhang of debt. A bank loans coming due being repaid may decide, for example, that it wants to cut its exposure to Brazil even at a loss. It sells its Brazilian loan at a discount but it will require reasonably to a multimational company wanting to invest in Brazil. The

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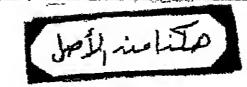
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INTERNATIONAL CAPITAL MARKETS V

Why all eyes are on the Fed

Outlook for interest rates

MARY ANN SIEGHART

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A SURVEY of UK fund man-agers in December 1982 revealed an almost unanimous view that the dollar would de-preciate in 1983. Instead, it followed a relenties upward trend, strengthening by 40 pfennigs against the D-mark. Similarly, most people expected U.S. interest rates to fall last year as they had done during most of 1982. A discount rate cut was widely expected but never materialised expected but never materialised and borrowers held back from the bond markets in the expectations that they would be able to finance more cheaply later in the year. In fact, U.S. rates were higher in December than they were at the start of 1983

So what happened? The two events are obviously inter-related in that high real in-terest rates have helped to keep the dollar strong by attracting foreign investors to

Interest rates have remeined lovestors have often flocked to income on its current account, high for two reasons. First, buy gold when there were politicated to reach \$180bn this Middle East.

Income on its current account, but in the last quarter of 1983, there is the buge Federal deficit, cal upheavals, say, in the trade deficit topped \$90bn estimated to reach \$180bn this Middle East. year. The savings ratio in the U.S. has been low for some dollar instead. While gold years, so the Government has topped \$500 an ounce in Febto Pay high real rates on its rulry, it was down to well be-

High interest rates have also been a lynchpin of the Federal Reserve Board's monetary policy. The Administration is determined to reduce inflation and believes that the best way

Treasury bonds to attract domes-tic as well as foreign investors. By contrast, the dollar gained High interest rates have also several pfennings every time a been a lynchpin of the Federal world crisis loomed.

Part of the reason was the fall in inflation. Gold gives the investor no return et all, while dollar bonds were yielding about 7 per cent in real terms. and believes that the dest way dollar bonds were yielding to do that is to rein in the growth of money supply. This is done by keeping interest rates high.

This was particularly important in 1983 when a surprisingly strong recovery looked vestors are likely to take their and to the total control of the U.S. follers.

prisingly strong recovery looked as if it might fuel a renewed bout of inflation. All in all, there has been little leeway for the Fed to cut rates.

So dollar investors last year had the benefit of both high real interest rates and gains on their currency. But it was not just the returns on their investment that they found attractive. They also had confidence in the underlying prospects for the U.S. economy.

Moreover, the U.S. was increasingly seen as a safe haven in troubled times. In the past,

increasingly on inflows of foreign capital. tal inflows are revorsed, the dollar could weaken substantially, which would make improve

Cheap imports

tricky position. As It is worried about inflation, it may not want

interest rates and attract the capital back.
But this is not so easy. First, if investors are determined to

expected to be at least \$100bn this year, resulting in a current account deficit of around \$80bn (needing to be financed). desert the dollar, interest rates may have to rise by a substantial amount to lure them back. Secondly, it faces problems at home, particularly in an elec-tion year. It is trying to foster investment, which is difficult in a climate of high rates. And it The strength of the dollar is partly to blame. In real terms, it has appreclated by 30 per does not want to choke back the

recovery of this year and the

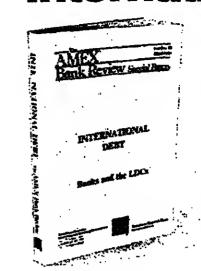
cent against the ven and 27 per cent against other currencies since 1981. This has made im-ports cheaper and U.S. goods less competitive abroad. year after. If rates rise too much, the present Administration may be charged with economic Incompetence which could peve the way for a Democrat to be returned to the White House, boding ill for lower inflationary expectations. Another problem is the growth differential between the U.S. and many of its trading partners. While real GNP grew expectations.
What is more, the Fed will

also have to face the wrath of other countries. Part of the reason for the slow recovery of European countries is that they too have bad to keep their own real interest rates high in order to allow their currencies to compete against the dollar.

many of these countries has therefore been tight, choking back their inciplent recoverles. But the debtor members of the Less Developed Countries, which already face difficulties in meeting the guidelines set by the International Monetary Mr Paul Volcker, ehairman fund, could suffer most. For of the Fed, has already voiced the 21 main LDC borrowers, fears about the U.S. as a net debinr nation, and if these capinal dcbt is pegged to floating

which would make imports
more expensive and therefore
add to inflation.
However, the Fed is in a very
Whether the Fed would be prepared to contemplate the result-ing inflation in such an imthe dollar to depreciate. One portant political year is quite solution, then, might be to raise another matter.

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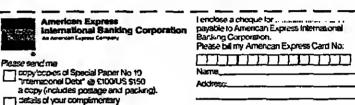
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Lenders look to their liabilities

section to investment and a section of the feet as the THE LDC debt crisis has forced limit not just about their assets but about their liabilities too. Because the because their credit rating is the because their credit rating is the because the credit rating is the because the credit rating is the because their credit rating is until the because their credit rating is the because their credit rating is the because their credit rating is until the because the credit rating is until the credit rating shout their assets but about their liabilities too. Because reschedulings have reduced the flaxibility under which banks usually operate they have been forced to seek methods of funding which are more reliable than borrowing in the reducible interbank market. volatile interbank market. This in turn has changed the composition of both the Euro-

composition of both the Euro-bond and the Certificate of Deposit (CD) markets.

Lending in the syndicated ioan market is usually quite a flexible process for banks—if they do not want to refinance a borrower they can just say so. But reschedulings to coun-tries in trouble give the lender banks very little choice. They therefore have to be sure about where the money for that lend-ing is going to come from and ing is going to come from and at what rais. For that sort of borrowing the interbank market is not perceived as reliable

expensive than the interbank cent). Many borrowers could market, carry a lot less risk.

MARY ANN SEIGHART

Banks issued a huge number of fixed-rate Eurodollar bonds last year, almost all of which were linked to interest rate swaps. Salomon Brothers estimates that at least \$10bn of such swaps were arranged in 1983.

where the money for that lending is going to come from and at what rais. For that sort of borrowing the interbank market is not perceived as reliable enough.

So the banks have concentrated on three other content. trated on three other sources coupon between bonds issued of medium and long-term floating rate finance which, while they might be a little more or 300 basis points (2 or 3 per

than 100 basis points, or 1 per cent. It is the gap between these two spreads that enables both parties to the swap to

Save money.
What usually happens is that a bank will issue a fixed-rate bond, while a counterparty—

say a BBB-rated corporation—will raise the same amount of money et a floating rate.

Each will keep its own proceeds but will then service each other's interest payments. So other's interest payments. So far, though, the counterparty is the only one with the advantage, for it has fixed-rate money at a rate well below what it would otherwise have had to pay. So it shares its gains with the bank by paying a small proportion of the floating rate interest as well.

In a typical example the bank might end up with an ell-in cost of funds of i. per.cent under the London interbank offered rate (Libor)—less than it would

(Libor)—less than it would have to pay on a floating rate while the corporation

CONTINUED ON NEXT PAGE

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Eurodollar bonds

MARY ANN SIEGHART

IT HAS been e patchy year for the Eurodollar bond market. Though new issue volume was only slightly lower than in 1982 —a bumpar year—there were several peaks and troughs on the way and bankers bad to rely increasingly on innovation to tempt investors back to the

New issoe managers had two problems to contend with: in-terest rates which refused to fall and booming worldwide equity markets competing for investors' fonds.

Just under \$35m worth of Eurodollar bonds were issued last year, compered with \$39m in 1982. As a proportion of international bond issues, the dollar sector accounted for 55 per cent (1982: 64 per cent). The volume of new straight bonds fell the most—from \$26.7bn in 1982 to just \$19bn. This was partly due to weak market demand, notably in the summer months, but there was

rrowers to issue bonds. The main absentees were the corporations, the favourites

also a reluctance on the part of

they thought interest rates had stirrings of interest out of an further to fall. Others raised already saturated market. money instead in the equity market. And the rest felt they did not need the funds anyway. Rising profits and more generous depreciation regulations helped to make companies

Bells and whistles'

Most of these corporate treasurers read the market wrong. Coupons pipped just under 10 per cent at the beginning of 1983, and reached peaks of over 121 per cent in August. By the end of the year, coupons on new issues were around 12 per cent. per cent.

Yet despite this uptick in rates, total new issue volume was not that much down on the yeer before. One factor was that rates did not move steadily upwards, and every time there was a slight movement downwards, new issue managers lost no time in launching bonds. Another is that floating rate notes took up a larger percentage of dollar new issues.

But probably the most im-portant factor in sustaining the momentum was the preponder-ance of "belis and whistles" attached to bonds, designed to lure investors back to

The first two crazes of the year—partly-paid and zero-conpon bonds—came and went the first two months as were loath to borrow because bankers tried to extract the last could make money.

But once an investor has decided that he does not want to be in bonds anyway, this sort of sweetener is unlikely to So instead, bankers work. work. So instead, bankers pondered the problem from the other side. If investors were deserting bonds for equity markets, why not sell them bonds with an equity content? That way, they could combine the certainty of a high real income from the bond with a chance to take a punt on the bonding equity markets. booming equity markets.

Thus, warrant fever was born. The first bond-withwarrants deals—for Hoechst and Siemens—came out in February, but true eupboria struck tha market in May.

Issue for borrowers like Deutsche Bank, Credit Suisse and Degussa were launched on coupons of around 7 per cent (compared with prevailing rates of around 111 per cent) and promtly soared to prices as high as 124 before stabilising at

At one stage the premiums on the warrants (the difference on the warrants (the thirteen between the current share price and the much higher price at which investors would break even by exercising their warrant) were close to 50 per cent. This meant that the sbare price would have to be half as high again before warrant-bolders

Threat posed by U.S. tax move

Apart from the fears of rising interest rates and a weakening dollar, the Enrodollar bond market has another shadow over it, which though it has loomed several times before, may become more concrete in 1984.

That shadow is the possibillty of U.S. withholding tax being repealed on domestic securities bought by foreign investors. Instead of having 30 per cent of their interest payments deducted at source, investors would receive the income gross.

The so-called "Gibbons-Conable" bill, currently before

Only then did the market realise it was being taken for a ride. Everyone tried to take their profits at the same time and prices of many of the war-rant deals fell dramatically. Deutsche Bank's issue, for instance, plunged from a price of 120 to 104 in one day.

One of the reasons may have been that new issue managers had just started to price new deels off the back of prevailing market levels. Imperial Chemi-

Congress, aims to repeal withholding tax, giving foreign investors access to the U.S. domestic market on more or less the same terms that they already enjoy in the Eurodollar bond market.

Because of the tax-free and bearer nature of Eurobonds U.S. corporate borrowers can often get away with paying a lower coupon on their bonds than the U.S. Treasury itself bas to pay in New York. If withholding tax disappeared, this advantage would probably vanish because U.S. corporations would be competing directly with the Treasury for funds.

The repeal could also be

price fell from its odd 123 issue price to 111 in one week.

The next craze to hit the Eurodollar bond market was the "ET"—while the rest of the world was raving about a bugeyed extra-tarrestial monster, the bond market was revelling in its new-found EuroTreasury

Pioneering the idea was tha fiedgling Quadrex Securities. It tried to sell 200,000 warrants on was asking investors to pay a premium of 11 per cent over the prevailing price of the Treasury bond — a premium cal Industries' ill-fated deal, for instance, asked investors to stomacb a 45 per cent warrant premium. They rebelled: the behalf of the U.S. congiomerate Transamerica, each of which entitled the bolder to buy a 10% per cent U.S. Treasury bond

people to be too high. Or to put it another way, the

investment banks. There is

a fear that a lot of business

would move back to New

York with tax-free bonds

issued directly from there. This would favour the U.S.

banks which already have a

strong presence there.
As a result, banks like
Credit Suisse First Boston
are pressing for an alternative Bill, supported by Congressman Doug Barnard,
which would simply allow

U.S. borrowers to try the Eurobond market without having to use the circuitous route of setting up a Netherlands Antilles financing sub-

due 2012. The warrants had to be exercised within a year and

the strike price was fixed at 92.

Despite Quadrex taking out full-page advertisements in three national newspapers the day the deal was launched, not

enough people were prepared to buy the warrants even at their minimum tender price of \$49.50 and by lunchtime, the issue had

Quadrex's problem lay not in the idea but in the pricing. It

to be cancelled.

yield on the underlying bond would have had to drop by 128

would have had to drop by 128
basis points (1,28 per cent)
within the year for the investor
to break even.
So other issuing houses used
the idea with a more realistic
pricing. Within two days, both
Merrid Lynch, and Salomon
Brothers had launched their
own ET issues with preniums
more in line with market sentimore in line with market senti-ment. In the next six weeks, these were followed by similar deals launched by Drexel/Paribas (Suisse), First Boston and Paribas, Merrili Lynch Royal Securities also adapted the idea for the Canadian dol-

But like many market crazes, this one eventually suffered from over-supply. The idea may have been intellectally appeal-ing, but too few investors were prepared to buy the warrants. Professionals in the market

and sophisticated investors thal deal.

could play around in the Chicago options and futures on managing fixed-rate bonds having to pay Merrill or Salodown the margins on syndicated mon to do it for them. Many mon to do it for them. Many other investors were wary of the instruments—possibly they did not fully understand them. And there were not enough in between to make the ETs truly

Competition

When investment bankers when investment pankers were not busy devising new formulas to attract investors to their bonds, they were engaged in flerce competition with other

mandates open to competitive bidding. And unlike the syn-dicated loan market, where banks tend to form into groups



And on top of that, the houses with the best placing power which also bid for the mandate are unlikely to be in the even-

down the margins on syndicated loans and floating rate notes. The latter, in particular, were much more incrative misiness for lead- and co-managers a few months ago than they are now.

So provided the yield curve remains positive and dealers can finance their bond holdings at a lower rate than the coupon

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interest they receive, secondary market trading may prove more

were not busy devising new for price than primary market mulas to attract investors to activity this year.

their bonds, they were engaged the market well. Rarely has banks.

Many borrowers threw their about the direction of U.S. mandates open to competitive interest rates. Some people are bidding. And unlike the syndicated loan market, where that the Sederal Reserve Board banks tend to form into groups will have to not the brakes on banks tend to form into groups to bid for a mandate, most U.S. money growth to ensure to bid for a mandate, most U.S. money growth to ensure the form in that the recovery does not fuel inflation. Others believe that the in slowing down and

come from the find the recovery does not face that the middle of the first the borrower may that the Fed would not let rates as many as 30 offers to rates rise much in an election sort through. But worse, a bank which has bid for a mandate. What is just as worrying for and failed to win it is pullikely the Eurodollar bond market is to accept an invitation to compare the bond from the has weakened substantially so bank that has won. Partly this far this year leading many into the save face, but it is also stimutional investors to liquidate hard for a bank to join a deal their dollar holdings and move on terms tighter than it promises the bond instead into currencies like posed itself.

This bodes ill for the bond's instead into currencies like Deutsche marks or sterling.

This bodes ill for the bond's life, Eurodilar bonds may account for an even smaller proportion of international bond terms were the tightest offered.

Funding the banks

CONTINUED FROM PREVIOUS PAGE

pays the fixed-rate interest of, sey, 12 per cent plus an TOP COMMERCIAL additional per cent sgain inuch less than it would have. BANK BORROWERS had to pay had it raised money in the international on its own behalf.

Bur like all arbitrages the gains are eroded as more people take advantage of them. Banks had to pay steadily rising coupons on their bonds last year because they were making such beavy demands on the

market : The competition hotted up too for the lucrative swap fees the deals and often taka on the risk of either party reneging on its obligations. So these fees were squeezed and swaps became rather more difficult to

The ultimate losers, though, have probably been the less sophisticated investors and tha co-managers of swap-related

To accommodate the terms of a swap the fixed-rate bond has often been too aggressively priced for the market. Unwary investors, or those who have their funds managed on a discretionary basis, have there-fore ended up with bonds which

The lead manager of the bond can afford to have pricing which is too tight because even if he loses money placing the bonds be is cushioned by the fee he receives for arranging the swap. But co-managers get All these factors have com-

method also relies heavily on how healthy the fixed-rate. Eurodollar bond market is Last November and December the market was virtually closed to borrowers. So banks turned instead to the floating rate note market, where

The margin a borrower has to pay over Libor on an FRN. has narrowed considerably since the middle of last year. Then the typical spread was a per cent; recently banks have issued FRNs paying no margin. Then the typical spread was arose, like a banking crisis, the 1 per cent; recently banks have roll-over market could be issued FRNs paying no margin threatened and the issuer would over Libor at all (though the not be sure of getting his all-in cost is slightly higher money. With an FRN, by conbecause fees have to be paid to trast, he gets his funds up market a reasonable alternative and does not have to repay to doing an interest rate swap.

Attaching-warrants or other Attaching-warrants or other Attaching warrants or other gimmicks to a floater can make the all-in cost even less shows how aware they have sometimes under Libor. For instance, Dreadner Bank issued lability as well as asset manthe all-in cost even less sometimes under Libor. For instance, Dreadner Bank issued an FRN with warrants to buy

its equity and Manufacturers

demand was very strong.

BOND MARKETS 1983

Bauque Nationale de Paris . Dresdner Bauk Deutsche Bank Barclays Bank 194 Long Term Credit Bank of Japan Nippon Credit Citicorp Bank of Tokyo 375 Industrial Bank of Japan 371 Credit Agricole Credit Suisse Security Pacific 200 Source: Salomon Brothers

paying 1 per cent under three-month Libor. The coupon on the fixed-rate bond was well

The CD market is the third source of medium and long-term floating rate funds. CDs are short-term bank deposits which are also tradable. Thare is a broad secondary market in them, so they appeal to investors like commercial banks, no such fee and frequently lose investors like commercial banks, money. Obviously they can corporations and central banks refuse the invitation to join that management group but they then run the risk of not being then run the risk of not being invited next time round.

The alternative to issuing a straight CD is to set up an invited next time round.

"issuance facility" under which

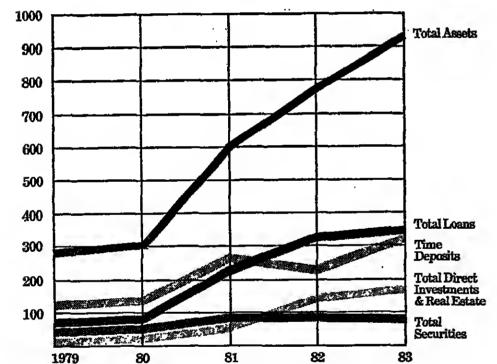
other banks agree to buy a certain number of the bor-rower's CDs at any time during the facility's life. Spreads on bined to make the interest rate swap less attractive than it used CDs can vary from 1 per cent over Libor to 1 per cent under. Because each certificate's life is only six months the rates are generally lower than on

However, the risk is slightly greater. In normal circumstances the issuer can guarantee himself, say, five or seven-year money by arranging a facility of that length.

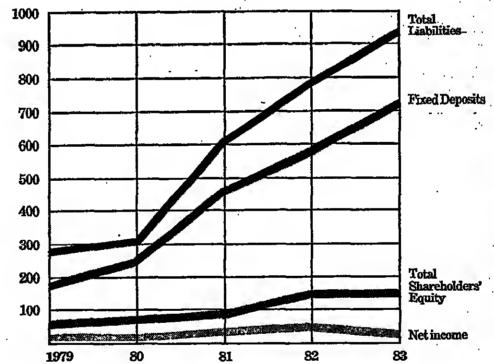
But if serious problems arose, like a banking crisis, the roll-over market could be

The increase in the issuance agement. The debt crisis has taught them to watch, not just Hanover launched a fixed-rate to whom they lend but also bond convertible to a floater where they borrow.





Assets	1983 KD	1982 KD
Current and call accounts with banks	3,802,577	14,279,271
Time deposits	327,267,568	225,792,352
Marketable securities		
Straight bonds and debentures	26,526,224	32,670,799
Equity-linked bonds	3,833,741	3,640,793
Equity	46,999,634	49,374,865
Loans and other securities	339,621,354	311,738,561
Real estate	101,277,359	82,381,777
Participations in subsidiary and associated companies	40,796,861	37,013,511
Trade investments	8,496,498	6,426,296
Other assets	20,686,635	23,740,688
Total Assets	919,308,451	787,058,913

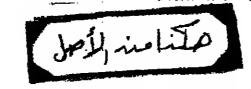


Liabilities and Shareholders' Equity	1983 KD	1982 KD
	<u></u>	
Liabilities	T00 010 010	PAT 000 171
Fixed deposits	708,012,313	565,807,454
Current and notice accounts	45,758,233	73,991,208
Notes Issued	14,000,000	_
Other credit balances	23,864,839	24,176,269
Total Liabilities	791,635,385	663,974,931
Proposed dividend	3,450,000	<u> </u>
Shareholders' Equity		
Capital authorized and issued:		
69,000,000 shares of KD 1 each	69,000,000	60,000,000
Proposed bonus shares	_	9,000,000
Statutory reserve	10,448,166	9,963,445
General reserve (including KD 36,724,620		
share premium) unappropriated profit	44,587,555	44,102,834
	187,345	17,703
Total Shareholders' Equity	124,223,066	123,083,982
zom smenomes zdafi		
Total Liabilities and Shareholders' Equity	919,308,451	787,058,913

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INTERNATIONAL CAPITAL MARKETS VII

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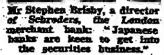
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Mr M. Kurokawa, president of Nomura Securities, predicts a "widening out" of the way Japanese companies fund themselves internationally

coupons where the tax "ble" is smaller. Japanese corpora-tions have shown tremendous enthusiasm for convertible

issues in other currencies in the past, notably Swiss france.

Borrowers will continue to Issue bonds denomiated in other currencies but designed to per-form as if they were yen bonds.

The abolition of the "real

demand" rule should also make it easier to put together sophisticated currency-based

deals from Tokyo, though this

has always been possible for anyone dealing in yen from any-

There is no question that the borrowing demand is there. Last

year, Japanese corporations raised nearly 50 per cent of their financing abroad, partly because terms were more attrac-

tive, but also to escape the restrictions of the domestic market, like the requirement

that they put up collateral against bond issues.

more yen-denominated

Samurai bond market (the

borrowers) are being widened

Mr Nobuyuki Takai, deputy

general manager of the London branch of Sumitomo Bank, for

example, says his bank did not meet its FRN purchase targets in the past few months because the margins were too thin, and is now casting around for new purchase.

very keen to get into the securi-ties business," he says.

Rules

System more accessible to outsiders

The Japanese connection

DAYID LASCELLES

APRIL I may not be the most auspicious day to initiate change. But this year it is supposed to be a big date in the Japanese financial calendar.

On that day, the Tokyo Government— under pressure from the U.S.— is to embark on the next stage of its gradual liberalisation of the financial markets. As so often in Japan, the changes may be more the changes may be more apparent than real. Even so, there is no mistaking the basic trend: Jepanese capital markets are becoming more accessible to outsiders, and Japanese institu-tions are much more aggressiva

in markets overseas. Several things are supposed to happen:

• Japanese horrowers will be

Mowed to tap the Euro-yea bond market for the first time.

Forward foreign exchange trading in Tokyo will be freed
from the "real demand" rule for foreign borrowers of yen,
which says that a genuine commercial transaction must underas the currency strengthens.

Birks will be allowed to raise more money on the Tokyo money markets through sales of certificates of deposit, and (The minue of yeo syndicated loans for foreign borrowers has been unchanged at about YI trillion for the last two years.)
The Government is happy to see access to the Samurai bond mar-

These reforms belong to a nuch larger package of much lerger package of measures that Japan agreed to sone summit as a gesture to head off mounting anger at its likely to feature as investors in the Euromarkets than as issuers, ostensible aim was to open up with their vast capital surthe Japanese finance industry to the outside world, and permit huge trade surpluses. The the Euromarkets than as issuers, ostensible aim was to open up the Japanese finance industry to the outside world, and permit the yen to play a role that bonds. According to the matches Japan's international ministry of Finance, Japanese importance.

matches Japan's international importance.

Although the Reagan Administration halled the package year equalled the total amount as a major triumph, there was less to it than met the eye, For one thing, Japan had already launched some reforms, largely because its regulation-cramped. one thing, Japan had already launched some reforms, largely because its regulation-cramped capital markets were obviously not up to the job of financing ket, though this is also due to the Government's burgeoning budget deficits. For mother, it will probably do less to some the yen's weakness against the dollar (Washington's biggest worry) than a drop in U.S. interest rates.

biggest worry) than a drop in U.S. interest rates.

The extent to which the all-powerful Ministry of Finance is prepared to give the yen a freer rain almost certainly depends more on the country's financial fortunes than jawboming from Washington. But at least Japan accepts the need for change and as a ministry Japanese go next. And since they invariably mova in droves their choice could have a big market impact.

Change

Mr M Kurokawa, president and managing director of Nomura International, the European arm of the giant Tokyo investment house which is keen to see change for obvious commercial reasons, admitted at a recent Fr con-

is keen to see change for obvious commercial reasons, admitted at a recent FT conference that Japan's ethics were "enigmatic." But he predicted steady and controlled growth" in the yen bond and syndicated loan markets, and a "widening out" of the way Japanese companies fund themselves internationally.

Japan's handling of the Europen bond question is typical of the enigma. Tokyo has never been very enthusiastic about offshore money — which government is not? And since this market got started in 1977 there have only been 26 issues totalling Y400bn (\$1.7bn). Borrowers have been restricted to top quality official institutious outside Japan.

From April 1 Japanese companies will be able to use the

panies will be able to use the market for the first time. But though "guidelines" have been drawn up, these are rather academic since the Ministry of Finance's tax bureau has refused to lift withholding tax on fused to lift withholding tax on interest payments, so the appeal to foreign investors will be minimal. The brain-teaser is whether the tax bureau is acting out of principle or front. acting out of principle or front deal, believes it is part of a lining for the ministry as a trend. "Japanese banks are

The block will not be total,

Rapid rise to prominence

MARY ANN SIEGHART

to buy a floating rata note than to lock into a fixed-rate bond whose price is likely to fall. But that was not the only factor that brought FRNs into prominence last year.

Last year was the year in which floaters began seriously to challenge the role of syndicated loans, both for issuers and investors, Borrowers like Sweden, the European Economic Community, Denmark, Ire-land, Belgium and many French state entities discovered that they could raise money on chesper terms and for a longer maturity in the FRN market Moreover, they could even ac-tire existing debt early and re-finance it more cheaply by so far this year. of course. Japanese investment bankers predict that there will be a market for things like con-vertible issues which carry loan issuing floaters.

FRNs instead to maintain the asset side of their balance

Tha advaotage to the banks ONE OF the outstanding features of 1983 in the Eurodollar bond markets was the increase in the number of foating rate notes launched. FRNs accounted for 40 per cent of all new Eurodollar bond issues last year, compared with 29 per cent in 1982.

In periods when interest rates are rising, it makes more sense to buy a floating rate note than to lock into a fixed-rate bond interest are room of the floaters are conditioned for the floaters and the Sweden \$1.2bn issues were among the most actively traded Eurobonds of last year. This has allowed trading spreads to narrow to 0.10 or even 0.05 per cent, making floaters a good depositary for fund managers' and companies' fund managers' and companies'

Because of the liquidity advantage, banks have had to be cootent with much lower returns than they would get on syndica-

The surge in demand for floating rate notes pushed their new issue volume up to nearly \$14bn last year, according to figures produced by Salomon Brothers in New York.

The first two months of this year saw even greater volume. Just over \$750 worth of floaters were launched, with nearly \$25n in just one week of February. This amounts to twice the volume of fixed-rate new issues so far this year.

Despite the huge leap in supply, demand was still strong issues overhapging the market that there were too many but that there were too many but that there were too many but the market issues overhapging the market issue, this was perceived as a one-off as investor demand was limited.

Since these traditional borply, demand was still strong issues overhaoging the market
rowers were moving away from enough to allow spreads to and that the narrowing of
the Eurocredit market, the tranarrow. While Sweden had to spreads and tengthening of ditional lenders - commercial pay ; per cent over Libor for maturities had overreached

and some bonds were being launched with no spread over Libor at all in January and February of this year.

Stretched

The World Bank even issued a floater linked to U.S. Treasury bills which yielded about 0.30 per cent less than Libor. However, many bankers feel that the market for such low-yielding access is pretty limited and ing assets is pretty limited and that the experiments may well not be repeated.

Maturities, too, have been stretched almost to their limit. The life of an average floater used to be around 10 years. But with the iocreased liquidity, issuing houses claim that the final maturity bas become much less important.

Many boods are now issued with lives of 15 to 20 years, but the final test came when Sweden tapped the market with a 40-year floater which had no early redemption options for investors. Like the World Bank issue, this was perceived as a one-off as investor demand was

there is certainly room for some readjustment

Such readjustment has already begun to happen. Prices of seasoned FRNs started to slide halfway through February to bring spreads up to mora realistic levels. And new issues are starting to be launched on more generous terms.

There is a fear that demand will drop off after the end of this month. Japanese banks have been heavy buyers of FRNs, using them to boost tha asset side of their halance sheets for the financial year-end on March 31 on March 31.

If they have borrowed short-term money to fund the pur-chases of these floaters, they may want to sell the FRNs off rather than renew the borrowings.

For the rest of this year, it will be interesting in see how the balance of floating rate management business is split between commercial and invest-ment banks.

Last year, for instance, the volume of syndicated loan business—traditionally arranged by commercial banks — dropped dramatically to be replaced, at least in part, by FRNs led by investment banks. Credit Sulsse First Boston led nearly a third of the FRN new issue volume, followed by Merrill Lynch in The rivalry between those two

banks — had to follow suit. Beits bond in the first balf of last
themselves. That is not to say is intense. To make matters
that conditions will revert to
the conditions will revert to in January, including Scandinavian specialist Caleb Watts. The next Swedish mandate was promptly won by Merrill.

> Despite that, bowever, many bankers feel that CSFB has not been seriously threatened in its position at the head of the league tables.

It is noticeable that the com-mercial banks are now trying to get involved in FRN business too. Having decided in 1982 that too. Having decided in 1982 that It was safer to make money on fee-related business rather aurning margins on risky lending, they now feel that they cannot sit back and let themselves be ousted by the investment banks. Bank of America, Citicorp, Manufacturers Hanover and Bankers Trust, for instance, have all led FRN issues recently.

issues recently. Investment bankers may now try to get involved on the loan side. There has already been a noticeable blurring of the distinction between FRNs and credits. Sub-participation in loans is on the increase, giving loans a limited secondary market. The issuers of FRNs are finding that the people lend-

ing them money are similar to those who last year would have participated in a loan to them. Now both investment and commercial bankers are trying to come up with products that blur the distinction still

16% 15% law issue volum in floating

the marketability of an FRN with the higher spreads available on credits.

rate aste market

9

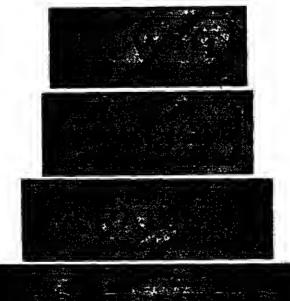
1981 1982 1983

Possibilities include regular tender panels at which investors can either bid for paper at a price they choose or sell the paper back to the lead manager and his underwriters.

Bankers have also talked about the idea of packaging loans as securities—the way mortgages are treated in the U.S.—with the possibility of taking them off banks' balance sheets.

Meanwhile, the shortage of lending opportunities in the loan market means that banks which are flush with cash should still want to buy floating rate notes. This year's uncertainty about the direction of interest rates should ensure that in-

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A creative approach to finance

New issue volume high despite ties with U.S.

foreign investment in D-mark

securities has overtaken Ger-

man investment in foreign

D-Mark bonds MARY ANN SIEGHART

THE DEUTSCHE-MARK Euroond and foreign bond market has found steelf annoyingly dependent on the vagaries of the U.S. domestic bond market over the past year. It is only in the past couple of months—with a strengthening D-mark—that a decoupling of tha two markets

There are two major influences on the performance of D-mark bonds—the mark-dollar exchange rate and move-ments in prices and rates on ments in prices and rates on the second quarter. Not until the New York market.

The latter is particularly important when the D-mark is the monthly calendars to total

Overseas

investments for

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the case for most of last year. Deutsche-mark bond dealers, like their Eurodollar counterparts, watched the opening of the New York bond market enziously each afternoon and marked their prices up or down

This meant that in periods of rising dollar rates D-mark as well as Eurodolfar bonds slid in price and new issues were difficult to absorb. In the summer of test year, for in-stance, the new issue calendar became far too heavy and a three-week gap was needed for

the overhang to disappear.

Over the third quarter of 1983 only 20 issues were launched, compared with 40 in

But despite the occasional brakes put on the market by events in the U.S., total new issue volume for 1983 was up from DM 12.7bn to DM15.9bn. The proportion of D-mark bonds in ell international bond issues rose too — from 7.1 per cent to 8.5 per cent. The D-mark market is still in third place in terms of new issue volume behind dollars and Swiss francs.

towards lower interest rates was not repeated last year. Coupons on DM bonds were about I per cent higher at the end of the year than in January but there were enough peaks and troughs on the way for new issue windows to be opened. What the German market

deficits are soaring. The flows back into the D-mark revitalised the market this year. Secondary market prices rose steadily throughout average yields down below 8 per cent

The general level of coupons on new issues has fallen too but badly needed was a reversal in the range of coupons has the flows of capital into the widened. In the last week in dollar. This indeed started to January, for instance, the Inter-

happen indiway through the American Development Bank-year and since the autumn, a triple-A-rated borrower-had to pay 31 per cent on a seven-year bond, while Pepsico—a double A U.S. corporation—got away with just 71 per cent for In terms of fundamentals this 10 years.

makes sense. Germany now has This pointed to a particularly positive current account balance welcome development — the Swiss investors were back in the it has reduced its public spend-Deutsche Mark market. The Swiss are notorious for being ing and inflation is around 3 per cent. By contrast the U.S. current account and budget prepared to sacrifice yield for the lure of a household name and companies like Pepsico,
Baxter Travenot and Sterling
Drug took full advantage of this.
Recause they were paying
over 1 per cent less than the

German Government itself they bought government bonds and used them to service their own interest and principal repayment, making a useful profit for thamselves on the way.

This process, called instantan-

now have to appear on companies' balance sneets. eous defeasance, was designed to have an added benefit. Under At the moment though, there intended to apply to companies

seems to be very little demand constraint on the volume of new issues. The January-February taken off the company's balance sheet. So Pepsico, for instance, would have made a DM 1.75m calendar scheduled DM 2.7bm in five weeks and the latest March-April one plans DM 2.03bn In the same amount of time. Stul the bonds have been trading at small discounts, well within But almost as soon as the craze started Deutsche Mark defeasance was knocked firmly on the head. The Financial Accounting Standards Board of the U.S. issued a buildin in February saying that these

For the time being at leas bankers expect this buoyancy to continue. If the dollar stays weak investors should move into D-marks and, to a lesser extent, sterling and yen. Maybe bond market will be able to de coupla itself altogether from

Both the liability (the D-mark couple itself altogether from bond issue) and the asset (the the doom and gloom in New German Government bonds) will York.

transactions were not within the spirit of the original de-feasance ruling.

wanting to retire their existing

debt early — the process allows the whole transaction to be

profit a year with no adverse

implications for its gearing.

Foreign borrowing increased

Guilder bonds PETER MONTAGNON

LAST YEAR was a record one for the Dutch bond market with total new issue volume rising to Fl 30.15hn from Fl 23.7on in

A large part of the new off-take was absorbed by the Dutch state which raised Fl-23.6hn, but Holland's growing balance of payments surplus and weak credit demand at home created room for a substantial increase in borrowing by foreigners.

in borrowing by foreigners.

Foreign issues in the domestic market last year accounted for FI 3bn of the new issue volume compared with only FI 25bn in 1982. To this must be added new issues of Euroguider bonds, which bankers in Amsterdam reckon rose to FI 1.6bn from about FI 1.1bn a year earlier.

Despite the large requirements of the Dutch Government there was little sign of other borrowers being crowded out as demand for guilder investments brought rates sharply lower.

Yields on ten-year govern-ment bonds touched a low point of 45 per cent in March, according to Morgan Guaranty. Trust, akhough by the end of the year they were a good per-centage point higher.

For foreign borrowers the coupon differential with the D-Mark sector has been reduced is mark sector has been retuned significantly. Normally guilder bonds carry a premium over those an the German currency which has been as high as 21 per cent. In February, however, the World Bank borrowed guilders at a coupon of 81 per cent, only I points more than it was paying at the same time in the D-Mark market

Two factors have combined to produce buoyand conditions in the Dutch capital market. Last year the savings rate was particularly strong while the balance of payments was in healthy surplus, estimated by bankers in Amsterdam at amound Fl 12hn. This year the surplus could increase to almost FT 20bn, some forecasters

Trad would mean that buoyant conditions in the bond market should continue, allowing for a continued strong new issue volume in 1984; Inhibition factors remain, however, such as the need for some premium to be maintained visavis the D-Mark sector as well as the general constraint on interest rates emanating from the U.S. Although there is not much Other floating rate note issues risk of the guilder falling

Foreign issues are placed predominantly in Benefux countries and Switzerland, where aware of any loss of advantage over the German market.

Both the Dutch and the German capital markets have recently benefited from foreign buying as investors sought to

Another record year

THE SWISS FRANC capital which were convertible into market had another record year equity. As in other bond marin 1983 with total new issues kets these issues appealed to of foreign bonds and private investors anxious to climb on placements reaching nearly the bandwagon of a very firm SwFr 31bn compared with only SwFr 27.7bn in 1982.

This volume was achieved despite much movement in interest rates. In fact yields interest rates. In fact yields on long term Swiss government bonds which started the year at 4.23 per cent finished it higher at 4.56 per cent after rising to a peak of 4.75 per cent in September. At the end of February the bonds were still yielding about 4.56 per cent.

At these Ievals Swiss interest rates are still, however, very high in real terms. Inflation in January was 2.7 per cent on a year-on-year basis, while for 1988 it was only 2.1 per cent, tha second lowest in tha industrialised world after industrialised

Coupled with Switzerland's strong current account balance of payments surplus this meant that the currency was less susceptible than others to weak-ness caused by the high U.S.

In fact the D-Mark slipped during the year to an average monthly level of just under SwFr 0.80 in December from well over SwFr 0.84 a year earlier, though it has since re-covered as the D-Mark has gathered strength generally.

German bankers argued that market, the weakness of their currency against the Swiss Franc reflects the latter currency's continuing attraction as a haven for capital flight funds. This may partly this reflects continuing unseven-year notes bear interest explain its relative strength last certainties over the depth of at a margin of 1 per cent over year, but the fact remains that their placing power.

Swiss franc deposit rates. nd for Swiss Franc denominated investments allowed the Swiss bond markets to be the second largest in terms of new international issue volume last year after the U.S. dollar.

Swiss Franc bonds

PETER MONTAGNON

stockmarket in Tokyo. At times signs of saturation of such issues appeared in the Swiss market, but in a contrary move-ment to the general ment to the general coupons on such privata placements have fallen with a record low of 12 per cent being estab-

The Swiss authorities have meanwhile been taking a series of steps to liberalise the capital market, the latest of which came in a circular to banks last

From this year the ceiling on individual public bond issues by foreigners has been increased to SwFr 200m from SwFr 100m. The Swiss National Bank has also dropped its confidential calendar for new issues, though banks still have to seek approval for individual flotations.

The purpose of the measures was basically to improve the flexibility of the new issues but one restriction

The Swiss franc market has Borrowing demand was These are issues denominated ket which is no longer exciuboosted strongly by the appetite in Swiss francs but repayable in sively in the hands of a conserof Japanese corporate borrowers for Swiss Franc issues, many of rate fixed at the time of issue.

The idea is to give investors a slightly higher yield on their Swiss franc paper-coupe dual currency issues are higher than those on conventional bonds—in return for a limited vulnerability to exchange rate appreciation of the Swiss currency.

Interest on the bonds is always payable in Swiss francs, but at the outset an investor can see how far the dollar would have to drop before ha starts to make capital loss. If the dollar does not fall that far during the life of an issue he stands to make a capital gain, but if it falls further be will start to lose money when con-verting the dollars received from the borrower back into Swiss francs. From the borrower's perspective the annual servicing costs of the issue are less than those on a straight dollar issue, while the fixed repayment terms protect him from appreciation of the franc.

Soditic, tha Geneva-based investment house, pioneered the dual currency concept, and it has led to a fairly steady stream of new issues particularly from U.S. corporations which are popular with Swiss retail investors but normally extremely cautious about tapping a market which in the past has given them many currency headaches.

Another innovation that has recently appeared has been the mergence of floating rate remains in that foreign banks are still unable to lead or comanage issues in the public the Italian electric ntility. Led market. It is understood that by Citicorp Switzerland the

also been experiencing a ing rate notes and the developnumber of innovations in new ment of the dual currency marissue techniques, the most ket have a deeper significance prominent of which has been in for the Swiss market. They the area of dual currency bonds, show that it is a maturing mas-

Enjoying a renaissance

THIS TIME last year the steri-ing bond market was in the dedrums. Only one building bond had been bunched in the previous four months and that was undersubscribed despite being generously priced.

something of a renaissance since then. Taking Eurosterling and bulkdog bonds together the volume of new issues jumped by 59 per cent to £1.9bn over the whole of last year.

Enrostening bond issues more than doubled from £460m to £1.3bn, helped by the rebirth of the sterling floating rate note sector, which had been inactive for several years.

Felling interest rates, a stable pound and the re-election of a Conservative Government all combined to revive investors interest in sterling bonds.

The return of the Conserva tive Covernment persuaded investors that fiscal rigour would be maintained for another five years, In addition, besides try-ing to keep its overall level of borrowing down the Govern-ment has specifically tried to stay out of the long end of the gilt market, thereby providing an opening for other bourowers who want funds for 20 years or

In November, too, yields on Eurosterling bonds moved be-low those on Eurodollar bonds. For the first time in the year it was both easier and cheaper to borrow in sterling.

It was in the autumn too that UK merchant bankers recognised the potential of floating rate notes denominated in sterious.

Demand from banks for

fast that the issue of sterling FRNs (floating rate notes) seemed the obvious answer. That market had not been But sterling bonds have seen tapped for three years when Societe Nationale des Chemins de Fer (SCNF); the French railways launched its floater in

This has farled to attract the This has farled to attract the thousands wanted to encourage but it allowed issuers like the World Bank in November to raise money on yery favourable terms. Its £100m. bond paid a margin of just I per cent over the equivalent gilt-edged stock. The cost to the borrower, which worked out at about 11½ per cent, was a good I per cent lower than the Bank

By this stage, foreign investors — particularly the Swiss — were worried that the dollar was likely to depreciate. Sterling bonds offered only slightly lower yield and there

MARY ANN SEGHART.

Sterling bonds

The issue was scheduled to

be £50m but demand was so

September : through S.

Warburg.

strong that Warburgs upped to £75m within hours. It still traded extremely well.

The gap in the market had arisen for three reasons. Cor-porate loan demand had fallen because of better cash flows and local authorities, which used to borrow from banks, were raising funds more cheaply from the Public Works Loan Board.

On top of that the Bank of England decided to slow down the growth in the sterling acceptance credit market — the market in short-term trade hills
— which had proved particilarly popular with foreign
banks operating in the City.

would have had to pay in the followed SNCF—the first four New York market — the only of which were also led by other market in which bonds with such long maturities can bidding hit the market in a big followed SNCF—the first four of which were also led by Warburgs. Then competitive bidding hit the market in a big way and several issues suffered from being priced too tightly.

The demand for floating rate issues is the course of payments surplus, most bankers believe that some premium over D.M. issues is needed to keep investors interested in the Dutch market.

The demand for floating rate sterling assets is evidently still there — but only at the right

New issue activity in sterling has continued to be heavy so far this year, boosted by the relative strength of sterling against the dollar Bankers expect the market to remain strong, at least over the next

Market in decline

Canadian dollar eurobonds

PETER MONTAGNON

THE MARKET in Euro-Canadian dollar bonds has lost months as yields have fallen, eliminating the traditional differential with those in U.S.

As a result coupon-conscious retail investors in the Benefux countries who are traditional buyers of these bonds have lost interest in the paper. At the same time yields in Europe have remained above those on the Canadian domestic market. prompting Canadian borrowers to switch their funding home-

Issues of Canadian dollar eurobonds stagnated last year at about their 1982 level of C\$1.47bn, according to the Canadian securities firm Wood Gundy. But there was a marked drop in both the total number of issues and in the amount absorbed by Canadian borrowers themselves. Out of a total of 27 issues in 1983, 20 were brought to the market by Canadian borrowers for a total value of C\$1.07bn. In 1982 there were 36 issues in all, of which 33 were placed by Canadian borrowers for a total of

The lower yields on Canadian dollar bonds prompted some new international borrowers to tap the market. In September the World Bank floated its first-ever Canadian dollar Eurobond,

issue amounting to just over C\$80m. The proceeds were used

But it is symptometic of the

general problem facing the Canadian dollar Eurobond market that the World Bank's next foray in Canadian currency was on the domestic market was on the domestic market with an issue earlier this year of C\$100m ower five years at a coupon of 11½ per cent. This was a lower rate than it would have had to pay for a Eurobond and like many Canadlan borrowers it had decided to tap the domestic market instead. The new relationship between

domestic and Euro-yields in the Canadian dollar bond market has prompted an increase in arbitrage activity by investors. Increasingly issues to the Euromarket have been finding their way back to Canada as investors there seek out the higher yield. At the same time demand for Canadian dollar paper from Germany, Switzer-land and Japan has increased. This reflects a perception that the Canadian dollar should at least stabilise if not appreciate against the U.S. convency.

The improving Caradian economy and the country's large trade surplus have in fact heiped to keep the Canadian currency broadly stable against the U.S. dollar over the past year, This in turn has meant that it has appreciated against European currencies have weakened against the U.S.

a C\$75m seven-year issue with a Bur bankers generally agree coupon of 12½ per cent. This that it will take a restoration of was only 2½ per cent more than the Canadian dollar coupon the World Bank had paid on a premium over the U.S. dollar U.S.\$200m bond shortly before. market to generate any significant entre Bank followed suit bonds denominated in Canadian currency. For lack of such a superscript of the coupon that it will take a restoration of the Canadian dollar coupon the U.S. dollar coupon the course terminated in Canadasa currents. For lack of such a premium investors in the Benefitz countries have been tooking elsewhere for example at the jurgeoning market in Australian dollar-denominated

> Nor has the Canadian dollar from the fashion for floating rate notes in the Eurodollar sector. Canada has an active and well developed capital market for floating rate instruments. As a result Canadian bourowers are easily able to obtain such funds domestically at rates well below the country's prime rate.

LONG TERM CANADIAN GOVERNMENT BOND YIELDS VS. U.S. TREASURY BONDS

1983	- Canada	U.S.
	12.28	10.98
Feb	11.08	10.57
March	11.07	10.85
April	11.18	19.52
May	11.03	10.91
June:	11.56	
Jul		11.95
	11.76	11.65
	12.34	
		11.65
	11.73	
	11.80	
Dec	12.02	
Dec	14.02	17.00

All of these Securities have been offered outside the United States. This announcement appears as a matter of record only.

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THE NIKKO PERSPECTIVE

ON WHAT

Motivates International Portfolio Diversification

Carl H. Tiedemann, General partner of Tiedemann/Karlen Partners and adviser to The Nikko Securities Co. International, Inc. Mr. Tiedemann is the former president of Donaldson, Lufkin & Jenretta, Inc. and a former governor of the American Stock Exchange.

ONE THING that U.S., Japanese and many European companies have in common is a growing base of pension assets that must be prudently managed. Where these companies differ is in how rapidly pension fund managers have diversified their portfolios internationally. Front the Japanese perspective, the Europeans were the first to enter the Japanese securities market. And until recently, European money managers have almost monopolized-at an estimated 85 percent-the flow of institutional funds from Europe, the Middle East and even North America into Japanese equities. Last year alone, net purchases of Japanese equities by nonresidents amounted to approximately US\$4.4 billion.

The noteworthy trend during 1983, however, was the growing interest of American pension funds and other institutions in the Japanese stock market. The consensus seems to be that this trend should persist. What is your analysis of recent developments?

Tiedemann: As you imply, the dramatic growth of pension funds in both the United States and Japan has created an environment where money managers have been increasingly looking outside their national borders for investment opportunities. For many years the financial community has talked about investing globally and internationalizing markets. I believe that at long last it may now become a reality. U.S. investors have certainly learned that there have been many times when U.S. markets have been bad for an extended period, while other markets have been performing well.

observed the Japanese economy tend to ask "why now?" after the Japanese economy seems to have passed its period of peak growth. What do you think American and other international institutions see in the Japanese stock market?

Tiedemann: There are probably many investors who wish they had found the Japanese market several years ago. If they had, they certainly could have materially improved their performance.

In my judgment, the situation has not really changed all that much. The performance of the Japanese economy in recent years, measured in terms of real rates of growth, the ability to control inflation and other economic fundamentals, has compared very favorably to other economies. The only people scemingly still dissatisfied with the rates of Japan's economic expansion—the highest among the industrialized nations—are my Japanese friends.

My reading is that the flow of American pension funds into Japanese equities first and foremost indicates confidence in the Japanese economy and its prospects for growth. I think that investors are also pleased by the strengths of Japanese

companies, both the quality of management and the quality of earnings. Another factor is the liquidity of the stock market in Japan. With total capitalization of the market at over US\$500 billion—the second largest of any equities market in the world—and daily trading volume recently averaging US\$800 million, the Japanese market certainly has the liquidity that institutions require.

My own assessment of the situation is that investors are also taking a look at the region as a whole. Many analysts agree that Asia has some of the best growth prospects. Within the region, Japan is best positioned to act as a leader.



MUCH of what you have just said seems to have been equally true 10 years ago. In the meantime, of course, we have seen the yen emerge as a currency of settlement and even as a reserve currency, but have there been any other structural factors that have facilitated the growth of interest in Japanese equities?

Tiedemann: From the position of an American money manager, I think the situation has changed significantly. A decade ago the Japanese stock market was substantially smaller than the U.S. market. Many managers obviously thought it was too small. Another factor that has changed is the quality of research and the quantity of industry statistics available on Japanese companies. The companies themselves are doing a much better job of communicating with investors, including conforming with SEC-type financial reporting requirements. The firms providing investment research are also doing a better job of covering the Japanese market.

In this connection, we might also look back on the passage of ERISA almost 10 years ago. The impact of this legislation was to make investors fear they would be violating their fiduciary responsibilities or not living up to the "prudent man rule." The result was that many investors passed over the opportunities in the Japanese market. Now, with much better information, many managers feel more confident that they can make prudent investments in Japan. I for one think that the timing is ripe for further internationalization of

stock markets worldwide, and I expect to see more money flowing into Japan.

OBVIOUSLY the internationalization of securities markets is a multifaceted theme. You mentioned that better information is now available on Japanese companies compared with a decade ago. Back in 1974, the number of Japanese companies that had issued securities in international markets barely exceeded 30, but now the number is approaching 300. Of the 1,441 companies listed on the Tokyo Stock Exchange, foreign investors hold over 10 percent of the shares of approximately 300 companies. In total, nonresident investors hold 5 percent of all shares outstandinga significant figure considering the size of the float for many companies. A few managers are even pleasantly surprised that international investors have taken such a liking to shares of their company.

How does this situation compare with the United States, and do you feel that American firms are looking to raise capital internationally?

Tiedemann: To respond to your last point first, I feel that most managers are encouraged that foreign investors have become large holders of their securities.

With Japan as the case in point, one can cite the growing interest of Japanese institutions—and even individuals—in American equities. These investors are also diversifying, and the securities industry is encouraging this growth. Nikko Securities and two other Japanese brokers are already members of the New York Stock Exchange. We have also recently seen a number of discussions between Japanese brokers and U.S. commercial banks regarding the establishment of joint venture trust companies. One obvious purpose is to interest more Japanese institutions in investing in the United States.

At the same time, U.S. securities firms have opened branches in Tokyo, many of them within the past two years, and several of their representative offices have applied for branch status. Their European counterparts have two branches and over 40 representative offices in Tokyo.

WHAT are your views on U.S. and other companies tapping the Japanese capital market?

Tiedemann: As background, let me say that an increasing number of American financial officers have developed a sophisticated understanding of international financial markets. They have put this understanding to work in financing inventories and expanding operations by tapping foreign markets at the most opportune moments. In addition, many corporate financial officers who oversee extensive foreign activities will use a number of currency hedging devices to reduce the risk of major currency fluctuations. There are still, however, a number of large corporations that have not taken the time or given the effort to developing the skills needed to take advantage of markets outside the United States. That includes

The Japanese market, however, does have a number of special features. Only a handful of foreign companies are listed on the Tokyo Stock Exchange, and the number has declined from a peak of 17 as recently as

1977 to only II companies at present. Listing regulations and costs are certainly a consideration but so is the level of interest among Japanese institutions. I expect this level to rise as fund managers increase the percentage of non-Japanese equities in their portfolios.

The market for debt securities is more of a regulatory issue. Although many firms would like to gain access to the Japanese bond market, the emphasis on collateral and other rather unusual regulations have discouraged them. It is in the interest of Japan to further open the bond market, and I am pleased there are signs of a move in this direction.

RECENTLY it has been hard to speak about corporate finance without broaching the subject of venture capital. This a hot topic in Japan as well as in the United States. In the early 1970s, Japan experienced its first wave of venture capital as many securities companies and banks rushed to set up venture capital arms. Most of these were financing second- and third-phase companies rather than start-up situations. Then the oil crisis occurred, and the topic faded.

Now there is another wave of interest in venture capital, and the number of venture capital operations has more than doubled over the past two years. A growing volume of offshore funds is finding its way to new partnerships. The obvious attractions are the ability that Japanese companies have demonstrated in the high-technology field and the basic vitality of the Japanese economy.

The structural factors encouraging the recent boom in venture capital include the reduction of requirements for overthe-counter trading and the relaxing of what have been comparatively stringent listing requirements on the major exchanges. How does this situation in Japan compare with the United States?

Tiedemann: With the reduction of the rate of capital gains tax in the United States, interest in venture capital has increased dramatically. Over the last two years, several billion dollars have been raised by different professional groups to be used as venture capital—more than was outstanding just a decade ago.

It is an exciting, healthy trend for the United States to have such a large pool of capital available for entrepreneurs who wish to start new businesses. One risk is that there has been too much capital raised for the number of good new investment opportunities available, thereby reducing the rate of return to investors in the future. At this point, I think I would rather be the entrepreneur than the investor.

In my judgment, there should be the same venture capital opportunities in Japan as there are in the United States. In fact, I am optimistic about the Asian region as a whole. Venture capital is a relatively simple financing technique compared with the cumbersome mechanisms found in many developing nations. Looking at Japan alone, I think the real opportunities lie in the field of high technology.

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INTERNATIONAL CAPITAL MARKETS X

Star performance last year reflects growing vogue

ECU bonds

PETER MONTAGNON

ONE OF the star performers in the international capital markets over the past year has been the European Currency Unit (ECU), the currency basket of the European Econo-

According to Morgan Guarany Trust, new international bonds denominated in ECUs bonds denominated in ECUs were equivalent to \$2.02bn last year compared with \$1.98bm in 1982 and only \$309m in 1981. Use of the currency in the Eurocredit market has also been growing, with the launch early this year of an ECU 450m credit for Ente Nazionale Idrogramme Italy's state anaers. carburi, Italy's state energy

At the same time trading of ECU deposits in the interbank market has also become more sophisticated. In the early days most trading took place by reference to the weighted deposit rate for component currencies of the ECU; now it is increasingly handled on an is increasingly handled on an outright basis which means banks are dealing ECU deposits without breaking them down into their component curren-cies. According to Mr Yves Lepean Investment Bank, some estimates now put the total being placed in the money markets as high as ECU 10bn.

Clearing system

So far has this process gone that those banks which now specialise in ECU business are discussing the creation of an ECU clearing system using the Basic-based Bank for Interna-tional Settlements as a central clearing point for ECU accounts. Such a cleaning system, if it is introduced, would be an important sign that the ECU is slowly coming of age as an international

Why has the ECU enjoyed such a conspicuous succes then efforts to create a market in enother composite currency, the Special Drawing Right (SDR), are generally thought to have dailed? Like the SDR, the ECU is an abstract concept —you cannot spend it in the the SDR and on the surface the annum for the four years to

There are two means at is not perticularly valuable as a counterpoint to

At the same time EEC sustitutions are active depositors of ECUs in the commercial banking system. The flow of such deposits into the market: is thus more consistent and

When a sudden fashion for SDR deposits emerged about three years ago banks were relying heavily on one single source, Shell (Brunei), which turned out rather capricious in its choice of currency.

Added to this is strong ideological support for the ECU from some European governments, notably those of Italy and France. This has led to a lot of official sympathy and encouragement for the development of an ECU market.

All this would, however, have little impact without some genuine market demand for ECUs both from the perspective of investors and borrowers. Here the ECU does offer a unique advantage. As a basket currency it includes some of the weaker European currencies, which makes it less witherable. which makes it less vulnerable to appreciation (which the borrowers like) and gives it a Yet a major hurdle remains higher rate of interest than to be overcome on the place-some other dollar alternatives ment side, which is still heavily such as D-marks, yen and Swiss dependent on investors in Belfrancs (which investors like).

As a result, the steady flow of As a result, the steady how of ECU bond issues over the past year has been readily absorbed by the market despite declining yields. By the end of last December, according to the Luxembourg Stock Exchange, the average weighted yield of ECU bonds had fallen to 11.39 per cent from 12.3 per cent at per cent from 12.3 per cent at the start of 1983. Recent new issues have carried yields of about 103 per cent.

A glance at relative borrow ing costs for several currencies shows quickly why the ECU has become fashionable for compiled by Istituto Bancario San Paolo di Torino the cost to

same should apply to the ECU April 1983 after interest and the depreciation of the franc is taken into account. The cost of ECUs was only 16.58 per cent. It would have been marginally cheaper to borrow D-marks, Swiss francs or French francs but all these currencies were much more volatile (except for the French franc which would have been

> For Italian borrowers the picture is much the same, with the cost of ECUs only 17.8 per cent compared with 31.81 per

hard to obtain internationally

Italy are in fact those for whom the ECU makes the most sense. The risk of currency losses is reduced because their own cur-rencies are part of the basket.

Broader range

As a result the ECU bond market has tended to be dominated by such assuens as well as EEC institutions such as the European Investment Bank. As the acceptability of the currency bonds have been arranged for the World Bank, for WestlB and Bank of Tokyo among others, while South Africa recently launched an ECU 40m. bond through Credit Com-

Yet a major hurdle par ing to one senior Belgian banker such investors buy about 70 per cent of all paper used. By tradition such investors are highly interest rate conscious. They also mistrust their own currency. ECUs which were created by European histingions on their doorstep are a logical Large - scale international

tors are still very cautious shout the ECU. how ated. A bone of contention is Then its that French banks, the other an even is

The ECU basket DM 0.828 FFr 1:15 L 100 F1 9.226 BFr 2.66 LuxFr 0.14 * I£ 0.98759

Only if the ECU market were n here is the fear that ECU able in the secondary market as those in other currencies which have been long established in the hond markets. The other problem for the sophisticated investor is that if holding an ECU lond reduces the risk of currency loss it also reduces the opportunity of currency wait

The growth of ECU business Traditional, alters themselves been week and from that point of view the ECU has

What remains to be seen is how the ECU market will respond to the revenue of the dollar's fortunes that many curissue ECU bonds operate a H the D-mark moves rapidly queuing system to prevent the into the ascendancy interest in market from becoming safar ECU investments could dwindle. the cost to major essuers, are newHing to its role as a safe haven for of raising join this quening system, investors funds



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As competition sharpens, banks take on higher risks

Project financing MARGARET HUGHES

WITH FEWER and fewer projects getting off the ground the competition for contracts is intense. The financial package which contractors offer is now often more important than their technical expertise, so that the competition among banks for the project financing that is still available has sharpened still available has sharpened and to mineral resource indus-

The net result is that banks are now more prepared to take on higher risks—or at least the resonsibility fur identifying and evaluating them. The graph erosion of subsidies the project. But there are few The net result is that banks

responsibility in incentifying entirely from cash generated by and evaluating them. The the project. But there are few panels also meant inderlying guarantee from that they are having to come that they are having to come with more innovative sponsor such as the local governition and marketing stages as

banks are now more receptive to project rather than corporate recourse, relying on their own evaluation of the risks. None the less, they usually require evidence of long-term sales contracts for the project output at market-related prices to ensure that revenue is sufficient to ser-vice the loan. Thus whereas banks still regard the develop-

Bankers expect financial packages to comprise a wider range of instruments, with more multinational financing and

greater use of bilateral and multilateral aid funds. Equity financing is also representing a higher proportion of the finan-

Export credits, which have traditionally accounted for some 85 per cent of the foreign cur-rency element of projects, are likely to be even less attractive now that the consensus countries have established a matrix of minimum interest rates which will be more frequently adjusted in line with market one of the major chaoges in looking at alternative sources of project financing has been the fixed-rate long-term finance erosion of subsidised export until such time as borrowers credit following the commit-accept export finance at variable

More use is being made of limited recourse financing, where relimited recourse financing, where relimited recourse financing, where reloans is the future cash flow of the project rather than the borrower's ability to repay, Loan repayments are tied to the finture revenue generated by the project rather than to the project rather than to the project is both completed and project is possor's balance sheet, originated in the U.S., where it has been used for some years for energy and energy-related to the project is banks are now more receptive in the total part of the project is underway banks are now more receptive in the part of oecone more innovative in the way they put these together in ooe package. As project finance banker put this form of project financing or the subsidy element. The sources of funding for the subsidy element. The days when officially supported export credits were some five to six percentage ance funds which are already points cheaper than market opening forced to become more innovative in the way they put these together in ooe package. As project is both completed and that cost overrums are met and production has reached a project is underway for energy and energy-related banks are now more receptive banks are now more receptive.

The sources of funding for the subsidy element. The days when officially supported export credits supported export export than market finance and forcaper into six funding by pension and insurance find funds. But hanks are being forced to become more innovative in the way they put these openits cheaper than market finance and forcaper than access to export credit agency guarantees without being constrained by consensus minimum interest rates. Neither of these proposals has made much pro-

> Much nearer realisation is the Much nearer realisation is the use of the Eurobond and ster-ling bond markets, using export credit agency support in the form of a guarantee only — le, "pure cover." It is argued that use of the bond market with an export credit agency guarantee would provide a cheaper source

countries which are liable for the higher consensus rates and in those currencies where the market rates are well below consensus rates.

the cost of the premium for the specific bank guarantee, which is currently 0.8 per cent of the loan value, but allowance would bave to be made for the costing of the insurance premlum.
It is also argued that the bond market would give access to fixed-rate financing at market rates to borrowers which would not otherwise be able to tap the Eurobond market because of their low credit rating.

There are, bowever, several problems in using the bond markets. One is that bond issues are usually drawn down immediately in a single lump sum, whereas the financing needs of a project are spread over long periods of time. Another simi-

lar problem is that bonds are usually repaid in one bullet re-payment, whereas the consensus requires that loan repayments are made in semi-annual instal-

But bankers are evolving ways of overcoming these obstacles with a view to financing projects through the bond markets in the very near fulure. Funds could also be raised at market to finance the project construction period and then rehnanced by means of a fixed

One major hurdle has already been overcome in that Britain's Export Credits Guarantee Dopartment has agreed for the first almo to provide a direct guarantee to holders of Eurobonds and sterling domestic bonds. This is a major depar-ture, since previously ECGD has only extended its guarantee

State agencies obliged to throttle back

THE FINANCIAL predicament term credit lines to Mexico. To begin with, frequent adjustof many developing countries guaranteed a \$124m long-term
ments of the reference rates
has rebounded with a vengeance loan for a communications satelon the government - backed lite project in that country,
export credit insurers on whom backed sales to the national oil
secondly, the system was export credit insurers on whom backed sales to the national oil those countries have tradition- companies of Brazil and Peru ally relied for trade finance.

Only last month came reports from Tokyo that the Japanese Eximbank, always cautious, had stopped underwriting exports to
25 countries in Latin America,
Africa and Eastern Europe.
Britain's Export Credits
Guarantee Department, one of
the largest agencies of its kind
in the board is pour running a

in the world, is now running a cash flow deficit for the first time in 30 years. In the past few weeks it has added the Philippines to the lengthening list of markets for which it is providing no cover, or highly restricted cover, for short-term

Political causes of loss— chiefly debt rescheduling or delays in foreign exchange pay-ments—have left agencies with abnormally high exposure in risky markets. Three-quarters of the 200 countries in which lending the ECGD has exposure are in the lower two of its four credit. A disincentive of a different worthiness. categories, and kind for trade lenders—and country limits are being ever more carefully set.

A disincentive of a different kind for trade lenders—and borrowers too—came last more carefully set.

the past financial year to £584m. As Mr Jack Gill, bead of the ECGD, told the House of Com-ECGD, told the House of Commons public accounts committee recently, 18 countries have concluded rescheduling negotiations, seven are awaiting signature of bilateral agreements, rix is to be automatically adults multilateral, stage at the every six months, in line with market rates. so-called Paris Club of creditor nations—and the list is still growing along with the volume of claims due to political cause

Now Issue

companies of Brazil and Peru and confirmed a \$550m loan for the Yacyreta dam on the Argentina-Paraguay border.

Last August it pledged special loan and insurance guarantees worth up to \$1.5bn for Brazil and up to \$500m for Mexico.

The commercial banks, possibled down as they are with

Export credits CHRISTIAN TYLER

non-performing loans and bad debts caused by bankruptcies, are understandably sby of ex-tending trade credit to countries where official agencies fear to According to export finance managers in London the banks are also reducing their country

lending limits. more carefully set antumn when the members of Nearly 60 per cent of the Organisation for Economic ECGD's estimated E32bn-worth Co-operation and Development of commitments is with the (OECD) decided to reduce riskier "C" and "D" markets, the gap between subsidised credit rates and commercial comme largely to U.S. pressure, the commercial—risk in markets export credits. "consensus" where the official agencies feel agreed to start phasing out the already overextended.

every six months, in line with market rates.

At the same time the OECD agreed to allow governments to support loans in low interest rate currencies (LIRCs)—

of loss.

Those who expected governmental export banks to fill the sovereign lending vacuum created by the private banks have by and large been disappointed. One exception to the prevailing mood of retrenchment has been the U.S. Eximbank.

After criticism of Eximbank from the U.S. industry that it was not doing enough to encourage and safeguard their export business, the U.S. Administration last year signalled a change of heart.

Within a few months the Eximbank had authorised \$375m in short and medium

Support tousines (LIRCs)—carry the risk of carry the risk of

designed partly to ensure equal and easier access to long-term capital markets; but in some LIRCs these markets scarcely exist. Again, according to some export finance managers, the low interest rate option is often an illusory benefit for the

buyer.
Strong currencles like the Deutschemark or Swiss frane, borrowed at above commercial rates, may easily prove in the long run a more expensive way of financing projects or capital goods supply contracts than, say, soft, high-interest French

Exporters Interested in the LIRC option are being told to prove first that they cannot finance their deals on a pure cover basis only—that is, by using the commercial market for their export credit, fore-going bank guarantees and taking out a simple insurance policy against non-payment by

the customer.

The bleak climate for expor lending has inevitably spurred the risk-takers to devise new ways of keeping the channels open. For example, the private insurance market has found an increasingly promising niche, offering export insurance against political—and latterly

The private market is still relatively small, but can often plug the gaps that will enable an exporter with a good track record to continue doing business in difficult markets. Another Idea now being dis-cussed between the ECGD and

risk-sharing ratio might be changed. The banks normally carry the risk on the first 15 per cent of a contract, and get 100 per cent backing for the 85 per cent that remains.
Now the ECGD is suggesting that It will entertain risk to difficult markets provided that

the bank or the exporter will take, say, another 10 or 20 per cent of the risk. ECGD is virtuelly unique among credit insurers in giving 100 per cent guarantees, but the policy may be charging.

be changing.

It is not clear yet, however, whether this is a formal change of policy, or an ad box response to hard times for lenders and

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New formula provides banks with greater security

World Bank co-financing

MARGARET HUGHES

IN AN ATTEMPT to encourage commercial bank lending to developing countries the World Bank a year ago launched a new co-financing schema wherehy it participates directly in a syndi-cated commercial bank loan. Previously co-financing of pro-jects involved two parallel loans, one from the World Bank and another from commercial banks. Now the World Bank will continue to make its direct loan for the project but will participate in the commer-

World Bank co-financing was first introduced in the mid-1970s with the aim of encouraging commercial banks to provide funds for projects and countries which they might otherwise sbun. The rationale behind co-financing is that it provides the commercial banks with greater security because bor-rowers are less likely to default on a project where the World

Bank is involved.

The Bank proudly claims that there has never been a default or rescheduling of any loans in its 36 year history. More cynical commercial bankers point out that the World Bank has been eble to evoid such an event by providing additional for the providing addi tional funds through its struc-tural funds where a country or loan for fear of jeapordising project has run into tronhle. their access to other World To date World Bank co- Bank financing. In the words of

for World Bank projects over the past 10 years. Even so, only some 12 per cent of the Bank's security for controlled bank and the security for controlled bank projects have private-sector co-financing, while co-financing still only amounts to 1 or 2 per cent of all commercial bank lending to developing countries. Some 70 per cent of the co-financing undertaken to date has been provided by commercial banks from four countries — the U.S., Japan, UK and Canada.

As banks have become in-creasingly ceutious in their lending since the onset of the international debt crisis, they have been negotiating with the World Bank to make co-financing a more ettractive vehicle for commercial bank lending. Commercial banks have long wanted a cross default cleuse, hut the best they have obtained over the years was a "comfort clause" whereby—at the World Bank'e discretion—a default on the commercial loan could cause its loan to be declared in de-

happened. Even now the banks have not obtained such a water-tight clause. But it is argued that since the commercial banks and the World Bank are participating side by side in the sama loan the hanks will have greater security than before. Borrowers it is reason

financing has had limited suc-cess in persuading banks to pro-vide commercial funding for its vide commercial funding for lts projects. Some \$7.5bn private to one loan not two and thus the bank in the later maturities sector funds bave been provided a default on one lender is a of the loan, again to the level

> the overall aim of the new formula is to ensure that developing countries have access to capital markets thet might otherwise be closed to might otherwise be closed to them. In addition it provides them with longer maturities than they would normally obtain from commercial lenders. The World Bank also hopes that it belps borrowers get better terms although the commercial hanks have made it

commercial hanks have made it clear that they will not be offering "cut-price" loans. The World Bank can partici-pate in the commercial lending in three different ways. It can either participate directly in the leter maturities of the loan contributing between 15 and 20 per cent of the private loan to produce significantly longer maturities than normally availahle in the market. The annual repayments of the principal by tha borrower would be made first to the commercial banks its loan to be declared in default. In practice this has never fully repaid. Then in the later years the repayments would be to the Bank to repay its share. There is also a sell-back clause which allows commercial hanks to participate in the later stages of the loan if they wish.

This is the option which bas been used for all three co-financing loans which have been undertaken so far for Hungary, Thailand and Colombia. It is likely to remain the preferred option for the commercial banks

Another alternative would be for contingent participation by

of 15 to 20 per cent. This would By providing increased be used where the security for commercial banks makes fixed repayments on a floating rate loan. The World floating rate loan and the security for the new floating rate loan. the maturity had to be exten-ded as a result of an increase in interest rates during the period of the loan, its commitment being to finance the balance outstanding.
The third option would be for

the bank to guarantee repayment of the leter part of the loan rather than to participete in the loan directly.

Grace period

The first loan to he cofinanced according to the new
formula was a \$100m syndicated
credit for Hungary arranged by
Arab Banking Corporation last
August in which the World
Bank's participation was 15 per
cent amounting to \$30m. This
loan, along with other World
Bank loans for tha projects involved, also marked Hungary's
debut as e World Bank bordebut as e World Bank bor-rowers following Hungary's membership of the Bank in

The majority of the loan was denominated in dollars with a margin of 11 per cent on a Libor tranche and of 1 per cent on the prime tranche. The term of the loan was six years with of the loan was six years with three year grace period but with World Bank participation ex-tending the maurity to eight years. The remaining \$47m of the loan was financed in yen with the Longterm Credit Bank of Jepan co-ordinating this part

cated loan was split between per cent over prime, the same new co-financing will not lead two projects—one for grain terms as on the \$210m syndito price cutting on margins storage and agricultural mechanisation and the other for colombia by Chemical Bank, ted to be followed shortly with energy diversification and control of the maturity is, however, longer a smaller cofinancing deal for energy with the World Bank servation—with the World Bank also providing a direct loan of

The second co-financed loan involving direct World Bank participetion was a Y8bn (\$36m) commercial bank credit arranged last September hy Mitsui Bank for the Thailand telecommunications anthority.
Financed entirely in yen, this loan had a maturity of 12 years

with a five-year grace period, extended to 14 years through the World Bank's participation. The loan was in two tranches with the smaller fixed-rate 0.3 per cent over the long-term prime rate and the Y5bn floating rate tranche carrying a margin of 0.1 per cent. The World Bank provided Y2bn of the loan, participating in the floating-rate tranche. The latest borrowers to nego-

tiate cofinancing under the new formula is Colombia's electricity authority, Financiera Electrica Nacional (FEN). A commercial bank loan of \$200m is being raised with the World Bank contributing 15 per cent in eddi-tion to a direct World Bank loan of another \$200m. Some \$175m of the commercial bank loan is denomineted in dollars with the remaining \$25m deno-minated in yen. Midland bank is co-ordinating tha dollar por-tion, while the Industrial Bank of Jepan wil lbe responsible for

The dollar portion of the loan

-eight years rather than sixwith World Bank participation had to reschedule. years. The yen portion is being

Colombia might have expected to obtain easier terms on a ted to obtain easier terms on a loan where the World Bank is advantage of direct World providing additional security Bank participation is that the by its direct participation given that unlike Mexico, which and bas greater resources available obtained better terms on its eble to evaluate and monitor new \$3.8bn loan, Colombia has projects. There are also banks not had to reschedule and is considered to be one of the few in the commanding scheme are good credit risks in Latin more cosmetic than real.

of the loan which had an extra will carry e margin of 11 per America. The fact that it didn't year's maturity. The syndicent above Eurodoliars or 11 would seem to confirm that the Paraguay which has also not There are mixed

> raised et e margin of 0.4 per to the merits of the new co-cent over the long-term prime financing scheme. Some see the main advantage to be the reduced likelihood of default Others are that of a greater advantage of direct World Bank participation is that the

security is, they say, "illusory" for the World Bank is still not guaranteeing the risks.

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Some bankers also complain that file loan documentation follows World Bank mitter than commercial bank procedure and as a result is both slow and

The World Bank meanwhile has high hopes for its new scheme which it is undertaking scheme which it is undertaking as a pilot project alongside its existing cofinancing scheme. It will only apply to project which have already been approved by the World Bank so that appraisal of the schema can be undertaken relatively might if alms to relatively. og indertaken relatively quickly. It alms to indertake between 15 and 20 such cofinanced loans within two years involving total cofinancing

Sub-participation on the increase

Syndicated Credits

MARGOT HEWSON

AFTER DROPPING as much as one quarter of its volume in 1983, the market for inter-1983, the market for inter-netional loans has little chance of significant recovery this year. Instead, the trends which emerged in the wake of for example regaining their.

Mexico's deht collapse in confidence and stepping back hugust 1982 are likely to inteninto loan syndications. sify, paring still further the scope for loan syndications and widening the disparity between so-called quality and lesser bor-

Against this gloomy back-ground the hanks have had more than a fintter with floating rate notes and, in an effort of telexes for a large Euro-to satisfy their desire for lost credit, the syndication is now to satisfy their desire for lost credit, the syndication is now fees and shorter maturities, are earn more discreet affair; targeting is the keynote.

Even taking into account in voluntary lending to Latin Americe last year, the volume of international loans shrank market will just be the icing on by over \$20bn to \$80.4hn, according to the Organisation for Economic Co-operation and Development (OECD). Morgan Development (OECD). Morgan Guaranty figures put the total of publicly amnounced Eurocurrency credits with more than 12 months inaturity et almost \$74bn, down from almost \$85bn a year earlier. As for 1984, any impetus to growth will likely be stified.

True, several developed countries are showing an improving current account trend Sweden, Denmark, France of Sweden or Ireland. and Italy, for example—making them even more attractive to asset-hungry lenders. In the Far East the Philippines' woes have yet to tarnish the credit-worthiness of neighbouring worthiness of neighbouring countries whose economic countries whose economic growth potential is the envy of the Western world. Ambitious the Western world. Ambitious oil majors wishing to swallow their competitors will still need to borrow and energy projects themselves will show a healthy appetite for borrowed capital. Great swathes of the world remain effectively off limits, however, when it comes to new lending. Morocco and most of black Africa, every Latin American country bar two or three the Philippines; not one three, the Philippines: not one of them will become an irresist-The chances are that others will join tha ranks of the reschedolers.

Some creditors are already asking how long Nigeria can manage without restructuring its medium-term debts, Kenya is on some banks' danger lists and others fear the protracted Middle East war will eventually cripple Iraq, which anyway feces a payments bulge in 1985. No one would deny the hard work done to keep the international financial system alive since Mexico's demise. However, for many the knottiest problem

So far in 1984 there have been few signs of the smallest players

As a result, syndicates have become top heavy with lead managers retaining a substantial part of their underwriting, and many expect this trend to continue. Where, three years ago, a marketing bank might have sent out literally hundreds.

market will just be the icing on the cake."

ply and demand suggests top-notch borrowers could benefit risk with longer maturities and yet tighter interest rate mar-gins. While some would argue banks have already over-stretched themselves in taking

the market this year, many ob-servers predict greater use of less-familiar instruments. Arguing thet the problems of rescheduling countries might have been far easier to handle had they not borrowed so heavily in the appreciating U.S. dollar, onespecialist forecasts a rise in the volume of loans denominated in European Currency Units, and other currencies.
Malaysia has already gone for

diversification, with its C\$150m, Canadian prime-priced credit through Royal Bank of Canada and others. Interest rate swap transactions and bankers acceptance fecilities could also enable second-tier borrowers to raise money from otherwise highly selective lenders, while revolv-ing underwriting facilities may help satisfy lenders' demand for

remains: how to deal longer developments: a food of floating term with developing country rate note issues in January, and debt and, in particular, Brazil. February, and growing interest While the most tenacious in loan sub-participation. Cenhanks apply themselves to this tral banks. European regionals, commundrum, some others less U.S. savings and loan instituted and the syndicated market as a whole will prominent among the many who stay out, preferring to concern have least abound the FRN trate on more traditional activities such as trade financing or fall in margins and joine greatly domestic business.

A growing number of hanks wonder whether they should get into the silent sub-participation business as a product line, rather than on the ad boc basis which has been accompanied. years Sub-participation (its pro-ponents stress this nomencla-ture rather than the more familiar selling off) involves one bank already committed in a deal, usually already signed, inviting another to take a stake in it for less than the full maturity and for less than the full spread specified in the less than the full spread specified in the

ine thir spread specined in the loan agreement.

This enables a bank such as Citicorp, one of the leading lights, to earn fees on loans without having to book the subparticipated amount of assets, thereby increasing the return increasing the return on portfolio without increasing the burden on the capital; asset ratio, "At the end of the day, it bells down to kidding the bank's accontants," was one observer's wire assessment.

The depth of this activity is by its nature hard to gauge. Since it is done silently the bornower is mayore of it unlike

any rate of return as long as loan assignments which have to it is positive, others see little be agreed. Alongside Cincorp, likelihood of shaking off cur. Bankers Trust, Lloyds Bank rently fine spreads for the likes and Midland Bank are menof Sweden or Ireland. To the while typical buyers would be the market that it is trying to the lower tiers of banks who negotiate — downwards — the want less than an eight or 10-

terms of its \$500m 1983 syndicated credit co-ordinated by Asset trading is dependent
Citicorp. Most providers paied upon margins staying low—
at the thought, fearing a who would buy into an old loan
dangerous precedent among it he could get a higher spread dangerous precedent among if he could get a higher spread similarly attractive sovereign on a fresh deal? — and viewed borrowers.

Given the many restraints on involved. Some speak of the unthe market this year, many observers predict greater use of while others fear the borrower's wrath, if he finds out. Some keen asset manager would argue it is none of the borrower's business; this is just another way of funding losus, and funding is a matter for the barks to decide.

banks to decide Advantages of sub-participa-tion from the market's point of view are that it can free large underwiters to go into a new deal, and bring in smaller banks who prefer shorter-term risk. But a major disadvantage is that it, too; is restricted to the loans of better quality bor-

While there is a little eppetite for swapping Less Developed Countries debt to suit the geographic look of the portfolio, there is hardly more scope for sub - participating existing Nigerian. Brazilian or similar debt then there is for sundiger. shorter-term assets.

d The banks' desire to gain debt than there is for syndicatflexibility and reduce maturities has led to two distinct tries.



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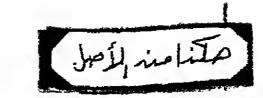
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Helping to get buildings up. And rates down. FULLER PEISER

SECTION II - COMPANIES AND MARKETS **FINANCIAL TIMES**

Thwaites Alldrive 6000 Dumper.

Monday March 19 1984

INTERNATIONAL CREDITS

Broken Hill goes mining in the FRN market

BY PETER MONTAGNON IN LONDON

BROKEN HILL Pty. Australia's mining, steel and natural resources concern, is to break new ground in the Euromarkets by using the bond market to finance a major slice of its coal mining project in central

Queensland. For the first time the floating rate note (FRN) market is to be used to provide project finance that is "nonrepaid out of the project's cash flow rather than as e result of any guarantee from the borrower.

note kind the control of the control Details of the package were unveiled after its signature in Singapore on Friday. The amount has been reduced to \$785m from \$1.13bn following the withdrawal of some of BHP's partners. Of the new amount \$401m will be raised in the

property of the control of the contr made necessary by Australie's tax are assuming the risk, they are pro-laws which make interest on bank credits subject to withholding tax. As a result the bank credit component, which normally forms the project finance loan signed last core of a major project, financing week - a \$235m credit for CRA (Arbas been reduced to a minimum, gyle) Finance to finance e diamond while the remainder of the money is being raised in the securities and cent but rise to 1% per cent once the commercial paper market where project is completed.
the tax does not apply.

This week should so

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HEAT . TANK THE EAT SAMPLE

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issues, one of \$335m guaranteed by Bank of Tokyo and one of \$46m guaranteed by Bank of America.

Although Bank of Tokyo is the sole guarantor of the larger issue it has effectively syndicated its guarantee commitment among other besides the \$500m loan package for way which is understood to be development authority in Portugal.

BHF B	utik bond at	rerage
March 16 98.987		Previous 99,937
102.017	1983-84	10w 97,899

These start at % per cent over London Eurodollar rates and rise io stages to % per cent. The life of the package is 12 years and lead man-agers are Bank of Tokyo, Bank of America, Chemical, Commonwealth Trading Bank of Australia, Contin-ental Illinois, Industrial Bank of Japan, Long Term Credit Bank of Ja-pan, National Australia Bank and National Westminster,

Overall BHP may well have PRN market, \$114m through a Eu-rocredit and \$270m through an is-sue of commercial paper in the U.S. that which would have epplied on a This unusual structure has been bank credit. While lead managers then those on another Australian mine. These margins start et % per

This week should see some devel-The natural caution of bond mar- opments in Ireland's efforts to reneket investors has also forced an ungotiate the terms of its \$500m credit usual structure on the floating rate arranged last year. The original notes, however. There are to be two terms are now regarded as out of line with the market
The proposal has met with stiff opposition from some banks, how-

lenders. All are to receive a fee for Greece, last week also saw the retaking on the project risk in this vival of a 520m credit for the Sines **EUROBONDS**

UBS sets a bear trap for unwary underwriters

A STRANGE thing happened in the to buy the few left in the market at he refused to give underwriters Eurodollar bond market last week. an exorbitant price of about 100%, "protection" by confirming in ad-A floating rate note from Fist, the or they have to persuade the huyers carmaker, which by all accounts to wait should have been difficult to sell - bonds.

even at e substantial discount - sud-The reason was that lead manager UBS Securities had set e "bear trap", in the words of Mr Armin Mattle, its managing director. Those underwriters who had sold tanged with a huge allotment were one banker said: You mess up all of the previous record-hreaker, Future to receive no bonds at all before July, at which time the size one bonds are all the size of the previous record-hreaker, Future fore July, at which time the size of the previous record-hreaker, Future fore July, at which time the size of the previous record-hreaker, Future fore July, at which time the size of the previous record-hreaker, Future fore July, at which time the size of the previous record-hreaker, Future fore July, at which time the size of the previous record-hreaker, Future fore July, at which time the size of the previous record-hreaker, Future fore July, at which time the size of the previous record-hreaker, Future fore July, at which time the size of the previous record-hreaker, Future fore July, at which time the size of the previous record-hreaker, Future fore July, at which time the size of the previous record-hreaker, Future fore July, at which time the size of the previous record-hreaker, Future fore July, at which time the size of the previous record-hreaker, Future fore July, at which time the size of the size o

vance what percentage of their underwriting commitment they would receive. And Mr Mattle claims that UBS is sitting on more than \$10m the underwriters are at fault for of the 5100m issue and it has appar-

managers that they are to sell no bonds to the market for delivery before July. Other banks are understandably \$800m convertible for Texaco,

ently come to an agreement with its place.

Credit Suisse First Boston performed e mammoth feat of syndicate organisation last week in its

fore July, at which time they could and then you lead them up the gar- small group of lead managers and buy them from the lead manager at e price of 99.

But that was little consolation to

Bunkers have to admit, however,

Bunkers have to admit, however, those who had to deliver bonds to that Mr Mattle is perfectly within along the lines of a globally synditheir buyers. They now have either his rights, During the selling period cated loan.

CSFB, Goldman Sachs and Morgan Stanley were nominated as the three "co-ordinators" with CSFB as "global book runner." Then four regional groups were set up, each with their own lead managers. CSFB, SBC and UBS are selling \$300m in Switzerland, Nomura International has \$75m for the Far East, Deutsche Bank is placing \$125m in Germany, and Morgan Stanley, Goldman Sachs and CSFB

have \$300m for the rest of the world Each of these lead management groups is free to form their own syndicates.

By Friday about a third of the is-

greater discount

sue had been sold and though the lead managers were trying to keep the price oo lower than 98% there were some boods in the market at a

was the issue of two boods from U.S. savings and loan (S&L) institutions backed by collateral of a portfolio of securities held by the S&L to give the deals e triple-A credit rating. Salomon Brothers launched the

first, a five-year bond for the American S&L Association, with 150 per cent collateral provided by securities from the Government National Mortgage Associatioo (Ginnie Mae), which have the 'full faith and

too was well-received, trading with- low inflation.

Another talking point last week in its selling concession at a 1 point

While e 1 point discount may normally be considered no more than raculous io present market conditions. The fixed-rate dollar primary market has been unreceptive to

oew issues. Io the secondary market, how ever, prices rose slightly on the week not through any great buying pressure, but possibly due to a feel mach which bave the "full faith and credit" pledge of the U.S. Government. The issue was so popular it was increased from \$100m to \$125m.

Goldman Sachs followed this with a \$100m bond on the same terms for North East Savings. This rate cut and a budget forecasting

	A				-			NAL BOND ISSUES		Maturity	An Eta	Coupon	Price	Lord Manager	Offer yield
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15th March, 1984

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Rabobank Nederland

15th March, 1984

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Credit market sees deficit cut plan as false dawn

M2 and M3 figures, were mostly better than expected and left oil three money measures within their target ranges. But the market believes the FOMC will

The sharp upward movement

in money market rates effec-tively discounts a Fed firming move but could also be used as

the "excuse" for such a move. While the recent increase in the

Fed funds rate (which soared

above 10 per cent for part of last week) can be partly ex-plained by technical factors like the March 15 tax date, other

culation about an increase in

the current 11 per cent prime

AFTER A brief flicker of life policy imbalance, inflationary late on Thursday following betters, the pace of the U.S. econoter than expected M1 figure and mic recovery and the Fed's resnews from the White House of an agreement with Republican Congressional leaders on a \$150bn three-year deficit cutting package, bond prices had plunged to new lows by the close on Friday.

While the equity market ralied strongly in bectic Friday and that does not look so good. The stream of economic statistics published last market in the producer price index calmed some Wall Street fears, bond market participants are focusing on the longer term—and that does not look so good.

trading the credit markets took at the stream of economic statis-another—and deeper—look at tics published last week—in-what was on offer and found it cinding a hefty 1.2 per cent lacking.

lacking. Short-term interest rates were again on the rise, leading to talk vance in bousing starts and an an impending prime rate increase. Another rash of extremely strong economic indicaserved to underline market contents of the strong and appears of the strong activities and an extremely strong economic indicaserved to underline market contents of the strong activities and an extremely strong economic indicasers. cerns ahead of the policy mak-ing Federal Open Market Committee meeting next week. Last week's money supply numbers, including the monthly

Fed funds weekly everage B.92 9.74
3-month CO's 9.88
3-month T-Bills 9.55 9.36
3-month T-Bills 9.55 9.36
3-year Tressury Sond 12.45 12.25
AA Industrial 13.50 13.13
Source: FT estimates

market believes the FOMC will focus attention on the economy. With the first quarter "flash" GNP figure dne out tomorrow and expected to show at least a 6 per cent annualised rate of growth the credit markets are taking no chances. tors sustained credit market ilt-

credit market had already made up its mind thot the Resgan decit package was 8 false dawn when Dr Henry Kaufman, Salomon Brothers' Kaufman, Salomon Brothers' chief economist, bammered the message bome in his Weekly Comments on Credit, beadlining them "False Hope." The market all but fell out of bed.

Dr Kaufman, like other senior Wall Street economists, pointed

out that while the deficit cutting proposal—and without Demo-crat approval it remains, just that—calls for o \$150bn reducthat—calls for 0 \$15000 reduc-tion spanning fiscal 1985-87, the vast majority of these reduc-tions would fall in the last two fiscal years, with only \$2500 slated for fiscal 1985.

What is more, Wall Street estimates that after allowing for cuts already included in the

cuts already included in the President's Budget the "real"

package may be worth less than \$100bn with a mere \$11bn falling in fiscal 1985.

Indeed some economists go further suggesting that a package structured in this way could actually he counterward to the suggesting that a package structured in this way could actually he counterward to the suggesting that a package structured in this way could actually he counterward to the suggestion of the actually be counterproductive. The monetary and fiscal

Loews buys 2.7m shares in St Regis for \$100m

OEWS, the U.S. hotels, ogreed not to purchase or own cigorettes and insurance group, has paid about \$100m for an 8.5 per cent stake in St Regis, reviving speculation that the U.S. forest products company is ripe for take-over.

The surprise news that Loews had acquired 2.7m St Regis had acquired 2.7m St Regis shares comes only days after St Regis rid itself of a potentially dissident shareholder group by repurchasing an 8.8 per cent stake in the company from an investor group led by Sir James Goldsmith, the financier.

The investors made a profit of about \$50m but in return

Hudson's Bay

By Robert Gibbens in Montres HUDSON'S BAY Company, Canada's largest merchandising group which is controlled by

group winch is controlled by Thomson family interests, reports an operating loss of C\$17.9m (US\$14m) for the year ended January 31, against a loss of C\$122m in the previous year. The per share deficit fell from C\$5.63 to C\$1.63.

The latest period excludes a C\$82.8m gain on the sale of investments in Dome Resources

ond Simpsons-Sears. After the gains the final net income was

Revenues rose by 5.6 per cent to \$4.4hn. Merchandising acti-

vities, including Bay Stores and Simpsons, showed a profit of

C\$59.9m against C\$22m. Hudson's Bay said it expected

earnings to continue to improve

C\$64.9m or C\$1.86 a share.

reduces loss

any securities of St Regis.

After the deal, which com-After the deal, which com- tion as an astute investor and mitted St Regis to buying back a businessman of integrity, and its shares at \$52 each, St Regis's share price dropped by more than \$3 to \$37. Loews bought its shares at prices ranging from \$364 to \$374 between February 21 and March 12.

Mr William Haselton, St Regis's chairman and chief

executive, said he had learned of the stake after a conversation with Mr Laurence Tisch, Loew's chairman. Mr Tisch had indicated that the purchase was "solely for investment."

Mr Haselton said: "We are most aware of Tisch's reputawe welcome his interest in our company.

"The performance of St Regis is presently improving even more than the economy, and we continue to anticipate increased earnings in the current quarter and the rest of 1984."

Loew's interests range from botels and cigarettes to insur-ance and Bulova watches. The Tisch family controls about 40 per cent of the shares.

Dow Chemical completes transfer of Banking stake

DOW CHEMICAL, the second 44 per cent sbareholding in biggest U.S. chemical company. Dow-Scandia Holdings of has completed the transfer of London. A further 8 per cent its 78 per cent stake in Dow owned by an employee trust Banking, of Zurich, to a special holding company.

The transaction, beralded in

January, represents a move by Dow Chemical to strength its Dow Chemical to strength as position in international finance. The majority shareholding in the Zunich bank will pass from Dow Chemical to the Delsware-registered Dow Financial Services. This stake is valued at about SwFr 210m (\$100m). Dow Financial Services will pay Dow Banking a total of about SwFr 34m in cash for a number of holdings in other companies. This includes sums

will also go to the Delaware company in a separate transaction.

Dow Banking will continue its operations in Zurich, specialising in portfolio management and Swiss franc lending business. It will also continue to own all of Dow Bank Overseas, of Grand Cayman, and the remaining 15 per cent stake in Dow MBF.

The new Dow Financial Services, which will have an initial capitalisation of SwFr 244m. will be managed in London. Its mpanies. This includes sums chief executive officer will be SwFr 15m for Dow Banking's. Mr Leslie Merszei.

lection systems.

Mr Ernesto Gerarde Mata has left the Banco de Bilbao to join the COMPANY UNION ELEC-TRICA-FENOSA, where he has ben appointed financial general

Banco di Roma well ahead

By Alan Friedman in Milan

BANCO DI ROMA, Italy's fifth targest bank and one of the top three banks controlled by the IRI state holding group, reported a 17 per cent rise in net profits for 1983, to L34.6bn (\$21.2m).

The increase represents a recovery for the bank, which in 1982 saw its net earnings drop by 6.3 per cent to

L29.68m.
The Rome-based bank, which has 240 branches in Italy, said its loan book totalled L25,760hm at year end, up 19 per cent on 1382.
Total deposits rose 17.3 per cent to L33,691bm.
Banco di Roma, along with the two other major IRI banks—Credito Italiano and Romes Commerciale Italiana.

Banca Commerciale Italians— plans to double the size of its plans to double the size of its capital to 1.280bn in its case. The exercise, which follows years of complaints about the Italian banking system being chronically undercapitalised, will be fanded principally by IRI.

Chase Manhattan, the third O Chase Manhattan, the third largest U.S. bank, had \$6.14hn in loans to problem Latin American countries at the end of 1983, according to its annual report, one of the first to be published since tougher U.S. rates on foreign lending disclosure came into effect

fast year.

This amounts to about 7.5 per cent of Chase's total

Slight recovery for **Swire Properties**

SWIRE PROPERTIES, the HK\$17m.

Hong Kong property developer

Which is a quoted subsidiary Cheung Kong group, confirmed of the Swire Pacific group, has that it had entered a prelimannounced net profits for 1983 ary agreement to sell eight of HK\$390.4m (US\$42.4m), up blocks of flats dire to be completed in 1982. A final dividend of 32 HK\$15m is expected to be the cents maintains a total distribution of 48 cents for the year.

The increase in profits follows

The increase in profits follows

The 1983 earnings come after a HK\$60m provision for possible losses from a development local property company, has recover rose 28 per cant to for the six months ended Defik\$1.4bm. WIRE PROPERTIES, the HK\$17m.

HK31.4bn. another Rong Rong property comnany, has reported net profits for 1985 of REF73m,

Off

Robe

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£750,00

AT STION IN

IK\$1.4bn. compared with International City Holdings, HK\$13.7m. The interim divi-mother Hong Kong property dend is maintained at 2 cents

countary, has reported net per there per the profits for the profits for the six months ended December value of its landbank. For 1982, to HK\$58m, against HK\$52.6m. ICH reported a net profit of the precin dividend is main-HK\$119.6m after a provision of tained at 7 cents per size.

New range will benefit Daimler heavy truck plant

BY KENNETH GOODING, MOTOR INDUSTRY CORRESPONDEN DAIMLER-BENZ, the West which the company is immediaged for manufacturer, in West Germany this week expects its total commercial. The new range in which the vehicle production this year fo company invested well over remain close to the 173,500 DM 280m, will replace the units for 1983. But output at Mercedes LP trucks.

sesets, writes David Lascelles, in the heavy truck plant at Woering. Last year 20,600 LP trucks in West Germany would fall were produced. Prof. Breitschwerdt, chairman medium weight tellicles would \$1,235n to Venezuela and \$800m to Argentina. Except for Venezuela, each represents a small increase on 1982, 6,5 to 11 tonnes gross weight, Western Enrope.

Lloyds Bank International eastern posts

the March 15 tax date, other abort term rates have also moved sharply higher.

Last aweek sbort-term rates gained a further 10 to 20 basis points with the three-month T-bill rote climbing to 9.55 per cent at the close and the three-month CD rate topping 10 per cent, leading to beightened speculation about an increase in The following appointments have been made within LLOYDS have been made within LLOVIS BANK INTERNATIONAL: Mr D. Hamilton has been appointed manager, Alexandria branch, following the retirement of Mr B. McWatt. Mr K. E. Haghes has been appointed manager of the Zamalek branch, Cairo, where he was assistant manager, business development. Mr J. R. Eggleshaw has been appointed representa-

tive, Lloyds Bank Internstional, for India, Sri Lanka, Nepal and Bangladesh, based in New Delhi. He was branch manager and state manager, Western Australia, Lloyds International, Perth Mr D. J. Hutchinson has been anpointed manager, Manila branch, the Philippines. He was regional manager, Latin America division, bead office, London. Mr J. R. Frew, previously manager, Manila branch, has been appointed manager of the Seoul branch, Korea.

• Mr Cafer Okray has been ap pointed MIDLAND BANK IN-TERNATIONAL'S adviser for Turkey, based in Ankara-the

INTERNATIONAL APPOINTMENTS

first Midland appointment in that secretary joint chairman of the country. He was adviser to Banca board.

Commerciale Italiana.

Ommerciale Italians.

Mr Stephen D. Hofflich has been named vice-president, information systems of SATEL-LITE TELEVISION CORP. He will be responsible for designing and implementing the computer awarens that STC will use in its direct broadcast satellite operation, and will also establish STC's customer billing and collection systems. Mr Ian M. Mills, recently joined the BANK OF NEW ZEALAND, bead office, Wellington, as foreign exchange manager (oetwork operations), and Mr Michael Cornford has been appointed manager foreign ex-change and treasury, Singapore.

 Dr Adolf Gugler is to succed Dr Hans Bergmaier as manage-ment chairman of ELEKTRO-WATT, Zurich, on October 4.
Dr Rudelf Bosch, currently
deputy management chairman of
the civil engineering subsidiary

Elektrowatt Ingenieurunterne Hamspeter Buehler will then behmung, will succeed for Gugler come deputy theirman and Mr as a manager of the parent company. In spring, 1985, Dr David board committee. Mr Max Syx, management chairman of the board committee. Mr Max Buehler recently appointed head the subsidiaries Cerberus and of the Japanese subsidiary, will Staefa Control, is to succeed for Hans Rudelf Niggil as a parent board, also in January, 1986.

company manager.

Mr Brik H Theke, managing director of PLM Haustrup, Brunswick, West Germany, has Odense Denmark, has been appeared deputy manager of PLM Haustrup, been appointed deputy manager of PLM AB and member of the ment chairman of the Swiss per of PLM AB and member of the managing director ment company GEBRUEDER group management. He will bushler, of Uswil in a year's maintain his present tasks as time Dr Frank Vischer will stoned Dr Brank Vischer will be wil

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POSTIPANKKI

February 23, 1984

All of these securities have been sold. This announcement appears as a matter of record only.

FT INTERNATIONAL BOND SERVICE

EUROBOND TURNOVER

U.S. S bonds Last week ... 7,821.6-15,449.3 Other bonds Last week ... 1,491.6 1,274.7 Previous week 1,519.6 1,144.7

No information available previous day's price.

† Only one market maker supplied a price.

STRAIGHT BONDS: The yield is the yield to redemption of the mid-price; the amount issued is in millions of currency units except for Yen bonds where it is in billions. Change on week=Change over price a week

FLOATING RATE NOTES:
Depominated in dollars unless
otherwise indicated. Coupon
ahown is minimum: Cdte=Date
next coupon becomes effective.
Spread=Margin above sis-month
offered rate (t three-month;
above mean rate) for U.S.
dollars. C.pm=The current
coupon. C.yld=The current
yield.

CONVERTIBLE BONDS: Denominated in dollars unless etherwise indicated. Chg. day Change on day. Chv. date First date for conversion into shares. Chv. price Nominal amount of bond per share expressed in currency of share at conversion rate fixed at issue. Prom = Percentage premium of the current effective price of acquiring shares via the bond over the most recent price of the shares. The list shows the 200 latest international bonds for which an adequate secondary market exists. The prices over the past week were supplied by: Krediethank NV: Credit Commercial de Fracce. Credit Lyonnais; Commercial de Fracce. Credit Luxembourg; Algemene Bank Nederland Nv. Pierson; Credit Suisse/Swiss Credit Bank; Union Bank of Switzerland; Alvoyd and Smithers; Bank of Tokyo Indernational; Blyth. Credit Commercial de France (Securities) Loudon; Daiwa Europe NV; EBC; First Chicago; Goldman Sachs International Corporation; Hambros Bank; IBJ Corporation: Hambros Bank; HIInternational: Kidder Peabody
International: Kidder Peabody
International: Merrill Lynch,
Morgan Stanley International:
Nomura International: OrionRoyal Bank; Robert Fleming and
Co.; Samuel Montagu and Co.;
Scandinavian Bank; Societe
Generale Strauss Turnbull;
Sumitomo Finance International: Generale Strains International; Sumitomo Finance International; S. G. Warburg and Co., Swiss Bank Corporation International; Wood Gundy.

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> L's. S borts 1.25 week - 4. Preting wed 5 Other bord على عبده الخسية France and E • N: =1.5251 Contraction Production

STRAINE STR SCOUTE E CONTRIBLE

UK COMPANY NEWS

Offer for sale puts £14m valuation on Connells

HOME COUNTIES based estate past five years, with pre-tax proagents Conneils is being brought fits really taking off in 1962 when
to a full listing on the Stock they rose from £357,000 to
Exchange by Kleinwort, Benson
through the offer for sale of 1963 it made profits of £1.51m on
just over 3m shares at 120p per
thare which prices the company
The company expects 10
expand in the future largely by

share which prices the company at £13.8m.

The company has 29 offices in seven counties specialising mainly in residential property though it has a significant commercial division which accounted for around 17 per cent of the income in 1963. The residential aide is complemented by a mortgage services department and agencies specialising in residential land and new homes sales.

Alost of the shares being offered are coming from institutional investors. Investors in industry and EDITE, and a smaller proportion from Constanting Group, a private company with reduce to around 60 per cent after the offer.

New shares will raise approximately £275,000 for the company, mailly 60 cover costs as Connells has built up a network of offices and staff over the contact of the contact of offices and staff over the contact of offices and staff over the contact of the contact of offices and staff over the contact of the contact of offices and staff over the contact of the contac

comment

With record instructions and sales in the first couple of months, Councils could ask for launch on the market than a budget which reduces stamp budget which reduces stamp duty and a decision by the Building Societies Association to cut mortgage rates by 1 per cent. And of course it pays a full tax charge so the reduction in corporation tax will belp profits too. A disappointing year in 1980 highlights the company's vulnerability to the property huying market and if, or when, interest rates creep bark up again or house prices stagnate then the bottom line will suffer. By the time such a downturn survives the whole conveyancing scene may have changed quite scene may have changed quite drastically and a link up if not a takeover by the building society could be on the cards. Meanwhile the offer is carefully price with an eye to Bairstow Eve's the only other publicly quoted estate agent and should prove popular with a market which appears to be greedy for fixed price offers at the moment.

Robertson Research full listing

University, Dr William McBrown. the Bank of Scotland New Issues be well received.

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further its prospects of expansion and growth.

S. G. Werburg and Grieveson grant are advising the company, which will have a market value of £19.6m at the fixed price offer for sale of £2.56m shares at 160p per share.

The company will have a prospective PE of 17.7 times at the offer for sale price based on a pre-tax profits forecast of not less than £1.7m for the year to March, 1984.

The company has grown

This advertisement is issued in compliance with the requirements of the Council of The Stock Exchange

formdesign plc

(Incorporated in England under the Companies Act, 1948

registered no. 861823)

Placing arranged by

Albert E. Sharp & Co.

of 625,000 Ordinary Shares of 20p each at 114p per share

Share Capital

Ordinary Shares of 20p each

Formdesign pic is engaged in the design, manufacture and marketing of Business and Computer Forms, Security and Word Processing Stationery, for use on various types of computers and word processors.

Application has been made to the Council of The Stock Exchange for the grant of permission to deal in the Ordinary Shares of Formdesign pic in the Unlisted Securities Market. It is emphasized that no application has been made for these securities to be admitted to listing. A proportion of the shares being placed is available to the public through the market.

Particulars regarding Formdasign pic are available in the Extel Statistical Service and copies may be obtained during usual business hours up to and including 2nd April, 1984 from:

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acted as advisers for Peugeot S.A. and PSA Finance Holding

Robertson Research is essentially a people business and has hullt up a formidable team of geologists, geophysicists and other experts to provide a wide range of consultancy services. Capital investment has been higher more recently particular. higher more recently, particularly with the expensive move into wireline-logging which cost some £850,000 over a couple of years. The directors expect to maintain similar levels of R & D March, 1984.

The company has grown steadily over the past five years film in new money to assist in financing the additional working encept for a profits dip in 1982 when there was a sudden collegee in the U.S. off market. The company says it is now broader based both geographically and in the services it provides, so that it should not be so vulnerable to any downtum from one sector of the natural resources business. The company is raising years. The directors expect to maintain similar levels of R & D to keep at the forefront of technologies in the forefront of technological developments, but it is still a small proportion of turnover, which was £14.9m last per cent of the equity, some 90 directors and employees will hold entered the so vulnerable directors and employees will hold entered the so vulnerable approximately 30 per cent of the equity means less to go round for prospective investors. The entered of the chart of the developments, but it is still a small proportion of turnover, which was £14.9m last offer of just below 21 per cent of the natural resources business.

The 655 staff are beaded by Dr Robert Cummings, a former approximately 29 per cent.

Applications should be sent to the prospective per contracts it is winning.

After the offer for sale of 20.9 turnover, which was £14.9m last offer of just below 21 per cent of the equity means less to go round for prospective investors. The company has no close company has no close company bear no the scock market against which it is the prospective investors. The company has no close company bear no the equity means less to go round for prospective investors. The entred per contraction of the contraction of the contraction of the entred per contraction of the contraction of the contraction of the contraction of the contraction of t

issued and fully paid

6/7, Queen Street, London, EC4N 1SP

February 1984

£500,000

Robertson Research, which provides geological and engineering services to the international petroleum, minerals and coal institute of Mining and industries, is coming to the market for a full listing to further its prospects of expansion and smooth to the international petroleum potential evaluations. Their work varies from making petroleum potential evaluations.

into paper markets outside the U.S. Flowing into European waters

Part of the turnsround at GB

Part of the turnaround at GB since 1980 involved the shutting of a third mill near Aberdeen which had been producing paper board at a heavy cost and accounted for about two-thirds

formance. Losses of £1.7m the year ending March 1981 were reduced to a loss of £153,000

James River, fast becoming one of the largest paper companies in the U.S., has made its first exploratory step into the European market.

This past week it accumulated a majority shareholding of 62.7 per cent io GB Papers, a small and independent producers like Bowaters or specialist paper producis hased at Guardbridge, near St Andrews in Fife.

It still hopes to gain the rest of the shares in a takeover hid worth £5.45m.

GB's directors and its merchant bank. Noble Grossart, have recomended the takeover. The Scottish company's halance sheet is looking better but only after a very troubled past. A scheduled rise in pulp prices in April and agein in the summer—making a comeback with demand recovery—could well wipe out the £1.65m of the singular profess forecast for the year to the end of this month.

James River, fast becoming on the profess last year were \$94.7m profess last year of were \$94.7m profess last year of the U.K's \$94.7m in 1973 to \$55.1m.

The Cutter Mill, near Abercutes of the UK's the UK's last year of lookend the UK's last profess the UK's profess with \$94.7m in 1973 to \$153.000 in th

ducers.

GB also operates a second mill at Millikenpark, west of Glasgow, again with highly specialised products such as computer printer paper and self-adhesive labels.

accounted for about two-thirds of company losses.

The company that year recruited Mr John Dick, a former ICI executive, who the enmyany credits with the considerable improvement in the company's performance.

profits forecast for the year to the end of this month.

James River, sees the purchase of GB Papers as a recomasisance mission mro Europe.

The EEC puts a 9.5 per cent import duty on paper imported duto the Community, giving a further incentive for an American producer to set up a base within the EEC.

We have no real international experience, said Mr Brent Halsey, one of the cofounders of James River. This is a small risk operation which will allow us to get our feet wet in the European market. It can be a base to explore other opportunities inside the Common tunities inside the Common

James River is now among the top ten paper producers in the U.S. Its strength has been in the specialist paper market for products like paper cups and plates as well as bothroom and sanitary products and packaging. The year's sales 10 April 1983 amounted 10 \$1.6bu, compared

Formdesign forecasts £330,000

Formdesign, a West Midlands based manufacturer of husiness forms and computer stationery, today announces delais: of its entry to the Unlisted Securities Market.

Brokers Albert E. Sharpe are specific and shares, 25 per Brokers Albert E. Sharpe are placing \$25,000 shares, 25 per cent of the equity, at 114p per share. At that price, Form-design is valued at £2.85m.
The company is forecasting a 58 per cent increase in pre-tax and the recent

profits to £330,000 for the year to the end of March, which puts the shares on a multiple of pine, assuming an estimated 4.5 per

assuming an estimated 4.5 per cent tax charge,
If Formdesign's shares had been dealt in on the USM during the year of the forecast, the directors would have recommended a total not divice, and of 4.8 per cent and be covered three times by estimated actual tax earnings of 12.50 per share.

three times by estimated actual tax earnings of 12.5p per share. They expect to pay an interim dividend of 1.4p net in July.

The shares are being sold by the chalaman, Mr John Smith, who founded the company in 1965 and taken a non-executive role since 1981 due to ill-health. Following the placing, he will hold 57 per cent of the equity, which at the placing price is worth £1.6m.

Dealings in the shares are expected to commence on March 23.

Lancashire & London

Net esset value per 25p share of Lancashire and London Investment Trust increased from 116.9p to 151.2p at the year ended December 31, 1983. The dividend is unchanged at 2.875p net.

After tax of 260,207, compared with £53,899 earnings came through elightly down at £116,645, against £120,619.

Franked investment income increased from £145,681 to £172,745, unfranked totalled £15,446 (£15,155), and dividend from a subsidiary was £15,714 (nil). Net bank interest and other income amounted to £3,250 (£48,322) while management and other changes took £31,403 (£25,840).

F.T. Share Service

The following securities have been added to the FT Share information Service; SeaCo Inc (Section: Leisure) Unibond (Holdings) (Industrials)

BOARD MEETINGS

The following compenies have satisfied detec of board meetings to the Scock Exchange. Such assettings are besulfly held for the purpose of considering thirdends. Official indications are not available as to whether the dividends are interims or finals and the aubdivisions abown below are based mainly on last year's timetable.

TODAY
Interime: Epicure, G. F. Lovell, R. P. Martin, New Cevendish Estates.
Finals, Ameliffe. Edinburgh Fund Managers, Leopold Juseph Sterling Fund, Michael Page Permerahlp, Seis Tiney, H. Woodward.

Bridgort-Gundy Mar 23
Chartshell Mar 31
Ken1 (M. P.) Mar 30
Park Place Investments Mar 23
Seademen Murray and Elder... Mer 23
Tyzsek (W.) Sons and Tumer Mar 28
Firella-A.C. Cers minerate and the second American Trust eging
Johnson Group Cleaners
Rerth Bringh Canadias Invest.
Parambe
Retork
Vectis Stens

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FLOATING RATE NOTES 1995
UNCONDITIONALLY
GUARANTEED AS TO PAYMENT
OF PEINCIPAL AND
INTEREST BY THE REPUBLIC OF FRANCE In accordance with the terray and conditions of the Notes, notice in hereby given that for the three months tone sex period irom 19th March. 1984 the Notes will carry a rate of interest of 3/4, W per ansum. The relevant harrest Payment Bate will be 15th June, 1984. The Contens among per 25,000 will be [11,190, payable against sucrender of Compos No. 2. Hambros Bank Limited

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CRÉDIT NATIONAL

• Mark Meredith looks at James River's first step

"Who is going to invest in a company that paid a dividend totalling five pence over five years." Mr Dick said.

"Producers were able to pass the first pulp price merease late last year on to cheats, but the grumbles were starting over increases set off by the next round of higher pulp prices," he added.

GB executives made contact with James River on a regular

with James River on a regular management tour of paper com-pames in North America which

led to the American company taking an interest, according to

There is little overlap in the products produced by either James River or GB Papers.

according to Brent Halsey. Some GB products will be distributed in the U.S. and the Fife company will bring in some new lines and technology transfers

CITIBAN(O

	28	153	: E E E	198	š:84	Stock	불리	+ 01	충	5.5	흥당	r i
	I BUS prior	Amo	F 5 6	High	Low	V-55/-	Closing	!		ŕģ	2×	
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FIXED INTEREST STOCKS

RECENT ISSUES

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	₹8	15,	High	Low		Closing price £	<u> </u>
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"RIGHTS" OFFERS

	Isavo	Amount paid up	Latest Resunc.	198	5/84	Stock	Closing	+0
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ı	/r.62p		_	41apm	412 pm	Cement-Roadslaze	4lepm	
١	- 1	F.P.	-	265	138	East Dagga Options	228]+]0
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ı	90	HII	_	4pm		Hawley Croup 18120	g15bw	1-1e
ı	275	F.P.	2/3	325	307	Higgs & Hill	326	+9
	R.50	Hil	B5/5	800pm		Liberty Life R.1	600pm	
	137	F.P.	813	155	150	McCorquodala,	163	+1
	535	F.P.	14/5	B40	745	-Miero Focus 10p	830	
	185	F.P.	15/5	B11	20613	dewmarket 5c	809	+2
	18	HII	21/3	13pm	11ps	shealbank Property 10p	13pm	176
					7.50	The American		

PENDING DIVIDENDS

Dates when some of the more important company dividend statements may be expected in the next few weeks are given in the following table. The dates shown are those of last year's announcements except where the forthcoming hoard meetings (indicated thus') have been officially notified. Dividends to be declared will not necessarily be at the amounts in the column headed "Announcement last year."

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CITICORP OVERSEAS FINANCE

CORPORATION N.V.

CITICORP •

Notice is hereby given that pursuant to Condition 2 (b) (ii) of the Notes, the new rate of interest for the period April 15, 1984 to April 14, 1986 will be fixed by the Company and notice of the new rate of interest will be published on Merch 29, 1984.

By: Citibank, N.A. (CSSI Dept), Agent Bank

March 19, 1984 London

corporated with limited liability in the Netherlands Antilles)
US\$100,000,000 Gueranteed Retractable Notes Due 1992
Unconditionally gueranteed by

Ordinary Shares of 50p each

Offer for Sale by Tender by the Bank of England on behalf of H.M. Government in conjunction with Kleinwort, Benson Limited

Payment of Interim Dividend Due 31st March 1984

Holders of shares sold in the above Offer for Sale should note that dividend mandates currently in force will not be applied to the payment of the interim dividend on such shares due on 31st March 1984, Accordingly, all warrants for the interim dividend on such shares will be sent by first class post to the addresses of the first-named registered holders on 30th March

All enquiries regarding this matter should be addressed

National Westminster Bank PLC Registrar's Department PO Box No 82 37 Broad Street Bristol BS99 7NH

Today's Rates 101/4%-103/4%

3i Term Deposits

Deposits of £1,000-£50,000 accepted for fixed terms of 3-10 years. Interest paid half-yearly. Rates for deposits received not later than 23.3.84 are fixed for the terms shown:

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Hopburn...Apr 20 Final 1.4
Bolk (A.)Mar 23 Final 2.0
Bibby (J.)Mar 20 Final 6.15
Blackwood
Hodgs...Aor 15 Final 6.15
Bloc Circle 12d Aor 28 Final 12.25
Booker
Brows...Mar 20 Final 2.25 Brows, Mar 27 Final 2.25

*Booker McConnell...Mar 27 Final 2.25

BrowstorMar 29 Final 3.5

*Bront Choma Intl...Mar 27 Final 3.9

British Final 3.5 British Aerospace...Mar 29 Finel 5.2
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Caramic...Mar 21
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AdwestApr 15 Interim 2.1 Anglo American Inv Tribt...Apr 14 Fizal 440c

*Molnwort

Benson...Mar 20
Kwik SavoApr 15
LWTMar 23
*LadbrokeMar 23
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* Board meeting intimated. * Rights issue since made. * Tax Iree. \$ Borip issue since made. * Forecast.

Traders and market makers in Euro Bonds and Floating Rate Notes

CREDIT COMMERCIAL DE FRANCE

(SECURITIES) LIMITED

Dealing Room Telephone 01-623 1246 01-623 2064 Telex 887186

Peninsular House 36 Monument Street London EC3R 8LJ

a wholly-owned subsidiary of CREDIT COMMERCIAL DE FRANCE



FINANCIAL TIMES STOCK INDICES

		Mar.	Mar.	Mar-	MAY. 15	Mar. 12	Mar.	1983 Nigh	Low	Since Oc High	mpllath Low
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-	ixed Interset	87.15	87,15	87.48	87.46	87,28	87.14	87,48	79,03	150,4	50.63
-	destrial Ord	894.5	875.5	864.8	865,0	844,1	840.9	.094,8	598,4	894,5	49,4
-	old Mines	668.4	688,9	705.1	593,A	897.9	711.7	784.7	444.6	734.7	43.5
	T-Act. All-Share.	528,89	818.74	513,74	510,98	503,64	501.35	528,89	382,22	528,59	61.98
-		1128,5		1097.7	1082,5	1063.B	1060,1	1128,5	997,5	1128.6	997.5

Closing prices March 16

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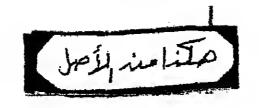
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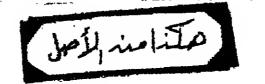
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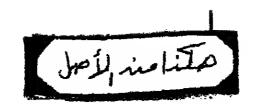
History

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WORLD STOCK MARKETS

	WURLD STUCK MATURETS CANADA NORWAY HONG KONG							
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Copies of this Offer for Sale, having attached thereto the documents specified herein, have been delivered to the Registrar of Companies for registration.

ation has been made to the Council of The Stock Exchange for the Ordinary Share capital of Robertson Research ple ("the Company") in issue and now being issued to be admitted to the Official List. This Offer for Sale includes particulars given in compliance with the Regulations of the Council of The Stock Exchange for the purpose of giving information with regard to the Company and its subsidiaries. The directors of the Company have taken all reasonable care to ensure that the facts stated herein are true and accurate in all material respects and that there are no other material facts the omission of which would make misleading any statement herein whether of fact or of opinion. All the directors of the Company accept responsibility accordingly.

The Application List for the Ordinary Shares now offered for sale will open at 10 a.m. on Thursday, 22nd March, 1984 and may be closed at any time thereafter.

The procedure for application and an application form are set out at the end of this Offer for Sale.



Robertson Research plc

Offer for Sale

S. G. Warburg & Co. Ltd.

2,564,365 Ordinary Shares of 10p each at 160p per share payable in full on application

Share capital

Issued and

Authorised 1,600,000

in Ordinary Shares of 10p each

now being issued fully paid

The Ordinary Shares now offered for sale rank in full for all dividends hereafter declared or paid except for the special dividend already declared in respect of the year ending 31st March, 1984.

Indebtedness

Indebtedness

At the close of business on 24th February, 1984 the Company and its subsidiaries had outstanding bank overdrafts of £683,000 and term loans of £750,000 (all of which are secured by fixed and floating charges on the assets of the Company and certain of its subsidiaries) and hire purchase obligations of £574,000. The Company and its subsidiaries also had certain contingent liabilities totalling £1,591,000 in respect of their own leasing contracts, a third party's leasing contracts and counter-indemnities for bank guarantees given in respect of, inter alia, performance bonds. At the same date one of the Company's subsidiaries had outstanding £77,000 nominal of debentures and the Company and its subsidiaries had outstanding the guarantees of associated companies' lease obligations and overdrafts described in paragraphs D(xii) and D(xii) of the accountants' report. Save as aforesaid and apart from intra group liabilities neither the Company nor any of its subsidiaries had at the close of husiness on that date any loan capital outstanding or created but unissoed, or any term loans, or any outstanding mortgages, created but unissoed, or any term loans, or any outstanding mortgages, charges, debentures or other borrowings or indebtedness in the nature of borrowing, including bank overdrafts, liabilities under acceptances (other than normal trade bills) or acceptance credits, hire purchase commitments or any guarantees or other material contingeot liabilities. At the close of ss on the same date the Company and its subsidiaries had cash at bank of £1,261,000. For the purpose of this paragraph amounts in currencies other than sterling have been translated into sterling at the rates of exchange prevailing on 24th February, 1984.

Definitions

In this document, where the context permits, the following expressions shall bear the following meanings:-

'the Company' Robertsoo Research ple the Company and all or any of its subsidiaries 'Robertson Research' or 'the Group' Robertson Research International Limited, a subsidiary of the Ordinary Shares of 10p each in the 'Ordinary Shares' Company the offer for sale of Ordinary Shares 'Offer for Sale' as described in this document

Greenwich Resources Inc. 'Greenwich' SNC Enterprises Limited and/or all 'SNC' or any of its subsidiaries

SOUTH AFRICA

SPAIN

Robertson Research provides an extensive range of geological and related technical services throughout the world to organisations engaged to the exploration for and development of hydrocarbons and other minerals and natural resources.

ment of hydrocarbons and other minerals and natural resources.

The Group's commercial success is founded on the quality of its work, the professional expertise which it has built up over a number of years and the range of services which it offers. Clients include major oil and mining companies, public utilities, national and local governments, government agencies and international development organisations. It addition to undertaking individually commissioned projects, the Group carries out multiclient studies for groups of clients with a common interest in a particular subject.

Robertson Research has its headquarters in Llandudno, North Wales and has operating subsidiaries in the United States, Canada, Singapore and Australia. The Group has over 650 employees, of whom over 280 are professionally qualified, including 52 with doctorate degrees. Three quarters of the Group's employees are based in the United Kingdom.

History and development

Robertson Research was founded in 1961 and had its origins in an association between Dr. Robert Cummings, who was then a senior tutor in geology at the University of Glasgow, and Dr. William Brown, at that time a petroleum geologist with Shell, together with members and associates of the Robertson family. The Group's original activity was the provision of mineral assessment services for the Robertson family's quarrying interests which were located principally in North Wales. From this base Robertson Research developed its services in connection with mineral exploration in Britain and overseas. In 1970 at Australian subsidiary was established to provide geological and engineering services to the Australian mining industry. services to the Australian mining industry.

Robertson Research's involvement with the petroleum industry began in 1962 with the provision of geological services, mainly in Ireland and also in Britain. This experience enabled the Group to establish a leading position in the provision of independent geological services to the North Sea oil and gas industries from the start of North Sea exploration activity in 1964. From these beginnings the range of services has developed to meet the expanding requirements of the petroleum industry, initially in the North Sea and later on a world-wide basis. To widen the Group's geographical coverage and to meet overseas demand for its services, local operations were established in Singapore in 1970, in Calgary in 1972 and in Houston in 1978. The Australian subsidiary extended its activities to include petroleum services in 1971.

include petroleum services in 1971. In 1972 the Group undertook a joint project to evaluate petroleum exploration data available on the North West Continental Shelf of Australia with the objective of selling the evaluation to a number of exploration companies interested in the area. The Group has since developed a policy of identifying opportunities for such multi-client studies and reports have been prepared covering many areas which are of interest to organisations engaged in the exploration for and development of petroleum, coal and other minerals. In recent years multi-client reports have accounted for over 25 per cent. of the Group's

The Group has expanded its services from exploration geology to include reservoir geology and other techniques applied in later phases of an oilfield's development. Since 1977 Robertson Research has used the specialist skills in reservoir engineering and economic evaluation of its associate, ERC Energy Resource Consultants Limited ("ERC"), on reprint when their continues are computed associated. turnover from petroleum services. projects where their services are complementary.

Summary of information

The information set out below should be read in conjunction with the full text of the Offer for Sale.

Robertson Research is a British-based group providing a wide range of geological and other technical services relating to the exploration for and development of energy and other natural resources throughout the world. The Group, which has a staff of over 650 and whose clients include governments and major oil and mining companies, operates from headquarters in North Wales and through principal subsidiaries in North America, Singapore and Australia.

Trading record

Year ended		Profis before
31st March	Turnover £000	taxation £000
1979	4,139	338
1980	5,988	507
1981	8,652	879
1982	12,635	688
1983	14,861	997
Six months ended 30th September, 1983	7,114	832
Forecast for the year endi	ing 31st March, 1984	

The directors forecast that, in the absence of unforeseen circumstances and on the bases and assumptions set out in Appendix II, the profit of the Group before taxation for the year ending 31st March, 1984 will be

not less than £1.7 million. Offer for Sale statistics Offer for Sale price per share 160p

Number of Ordinary Shares of 10p in issue after the Offer for Sale 12,250,000 Market capitalisation at the Offer for Sale price £19.6 million Prospective earnings per share for the year ending 31st March, 1984* 9.1p Price/earnings multiple based on prospective earnings per share 17.7 times Notional gross dividend yield based on

Notional dividend cover based on 3.0 times prospective earnings *Based on the forecast profit before taxation for the year ending 31st March, 1984 and an estimated tax charge of 40 per cent. A notional 52 per cent. tax charge would result in caraings per share of 7.2p and a prospective price/earnings multiple of 22.2 times. These tax charges take no account of the proposed taxation changes announced by the Chancellor of the Exchequer in his Budget statement on 13th March, 1984.

net dividends per share of 3p

Whilst petroleum services have become the most significant area of the Group's activity and now account for over 75 per cent. of its turnover, the Group has continued to develop its involvement with other minerals and the water and coal industries, both in the United

In 1975 the Group commenced the design, manufacture and sale of wireline logging equipment in addition to the range of geotechnical instrumentation which it had been producing for the previous 10 years. Since 1980 Robertson Research has devoted considerable resources to developing its capabilities as a contractor for wireline logging and to the manufacture of related equipment.

lo 1980 and 1981 Robertson Research acquired direct and indirect interests in oon-hydrocarbon mineral prospects in the United Kiogdom, Canada and Sudan as a means of participating in their development potential. These interests have since been exchanged for securities of Greenwich, a Canadian mineral exploration and development company listed on The Toronto and Vancouver Stock Exchanges, as a result of which the Group now has a 15.5 per cent. equity holding in Greenwich.

At the end of 1979 arrangements were made with SNC, a Canadian group engaged in engineering design, procurement and construction, primarily to strengthen the Group's financial position. The arrangements involved SNC acquiring existing shares, subscribing for new shares and providing guarantees for some of the Group's borrowings. As a result of these arrangements SNC held a 29 per cent. interest in the Company, a 49 per cent. interest in its Canadiao subsidiary and, with an associated company, a 35 per cent. interest in the Company's United States subsidiary. SNC's interests in these subsidiaries were exchanged for shares in the Company in 1983 and, as a result of these transactions and purchases of shares from other shareholders since 1979, SNC had a 45 per cent. interest in the Company's share capital immediately prior to this Offer for Sale. Following the Offer for Sale, SNC will hold approximately 29 per cent. of the issued share capital of the Company, which it has confirmed it intends to retain as a long term investment.

Further details of the Group's relationship with Greenwich and SNC are set out in

Robertson Research's turnover for the five years and six months ended 30th September, 1983, divided between its principal activities, was as follows:-

	Year end	ed 31st N	(arch		Six months ended 30th September
1979	1980	1981	1982	1983	1983
0003	£000	5000	000£	0002	0003
2,671	4,200-	6,230	9,401	11,557	5,466
923	1,318	1,910	2,886	2,850	1,131
545	470	512	348	454	517
4,139	5,988	8,652	12,635	14,861	7,114
	2,671 923 545	1979 1980 £000 £000 2,671 4,200- 923 1,318 545 470	1979 1980 1981 £000 £000 £000 2,671 4,200 6,230 923 1,318 1,910 545 470 512	£000 £000 £000 £000 2,671 4,200- 6,230 9,401 923 1,318 1,910 2,886 545 470 512 348	1979 1980 1981 1982 1983 £000 £000 £000 £000 £000 2,671 4,200 6,230 9,401 11,557 923 1,318 1,910 2,886 2,850 545 470 512 348 454

Directors, officers and advisers

Directors

Robert Henry Cummings, OBE, BSc, PhD, FGS, FIMM, Finst Pet, FI Min E, MIGeol, (Chairman)

William Francis Robertson, LLD, (Hooorary President) William Wilson McBride Brown, BSc, PhD, FGS, F1MM, Finst Pet, (Chief Executive)

Herbect Roy Bichan, BSc, PhD, F1MM, MIGeol, (Deputy Chief Executive) John Thomas Clarke

Lionel Henry James Cook, CD, FIMechE, CEng, MEIC, PEng, (Non-executive)

David Gaunt, (Non-executive)

Alexander Taylor, BSc(Eng), MEIC, MIMechE, PEng, (Non-executive)

all of Ty'n-y-Coed, Llanrhos, Llandudno, Gwynedd, North Wales LL30 1SA

Joint secretaries and registered office

Alexander Macrae Jaffé, MA, FCA Royce John Clint, MIAS, MBIM Ty'n-y-Coed, Llanrhos, Llandudno, Gwynedd, North Wales LL30 1SA

Joint auditors and reporting accountants

Ernst & Whinney, Chartered Accountants Lowry House, 17 Marble Street, Manchester M2 3AW

Becket House, 1 Lambeth Palace Road, Londoo SE1 7EV Astoo, Parkinson & Gadd, Chartered Accountants

29 Princes Drive, Colwyn Bay, Clwyd, North Wales LL29 8PE

Solicitors to the Company

McKenna & Co. Inveresk House, 1 Aldwych, London WC2R 0HF

Solicitors to the Offer for Sale

Slaughter and May

35 Basinghall Street, London EC2V 5DB

Grieveson, Grant and Co.

2.68 per cent.

59 Gresham Street, London EC2P 2DS

Principal bankers to the Company and receiving bankers to the Offer for Sale Bank of Scotland

38 Threadneedle Street, London EC2P 2EH

Registrars and transfer office

Regis Securities

Balfour House, 390/398 High Road, Ilford, Essex IG1 1NQ

The Group's trading profit during the period derived principally from its services to the oil

The following table gives an approximate geographical breakdown of the Group's turnover from its principal activities for the six months ended 30th September, 1983:—

Kingdom and the rest The Far East and North and Africa South Total % 29 22 15 77 and gas industry Services to the 16 minerals industry Wireline logging and other activious

100

Services to the oil and gas industry

Robertson Research has provided technical services in connection with the exploration for and development of hydrocarbons in over 80 countries during the past 10 years. It is, or has been, active in all sectors of the North Sea and in most other major oil exploration and production areas. The Group's clicots include the major oil companies, a large number of independent oil companies, governments; government agencies and international

The Group's policy is to provide an extensive range of services to its clients. These services encompass the various phases io petroleum exploration and development described elsewhere in this document, ranging from identification of exploration areas to field development. Services provided in the exploration phases range from regional geological and geophysical interpretation to the biostratigraphic and petroleum geochemical analysis of exploration well samples, sedimentology and conventional core analysis. Services in the development phases include reservoir analysis and conventional and special core analysis. In response to the increase in development drilling in the North Sea, the Group has recently established a new core handling and analysis facility in Absorbase. The Group's policy is to provide an extensive range of services to its clients. These services the Group has recently established a new core handling and analysis facility in Aberdeen. Some of the techniques used in its services have been developed by Robertson Research in

Robertson Research uodertakes major regional studies on a multi-client basis and these provide a significant proportion of turnover from petroleum services. Exploration studies generally provide a detailed analysis of a region's stratigraphy, the distribution and nature of the oil and gas source rocks and their relacionship to known occurrences of oil and gas; development studies examine the geological and engineering characteristics of known of and gas reservoirs. In its multi-client reports, which are sometimes prepared jointly with other organisations, the Group draws on data provided by participating clients and the ooo-confidential parts of the Group's data bank. In general, reports are undertaken only when the major part of their hudgeted costs of production have been covered by purchase



Robertson Research plc

The Group prepares independent evaluations of potential oil and gas fields. These are used, for example, by companies before committing substantial expenditure on exploration or development and by governments before opening an area for bidding or in assessing proposed production programmes. In certain types of petroleum evaluation requiring specialist skills in reservoir engineering, economic evaluation and seismic geophysical exploration, Robertson Research works with ERC and others to complement its own

As part of its services the Group organises technical courses and provides specialist

Services to the minerals industry

Over the past 10 years, Robertson Research has provided technical services for many aspects of the exploration for and the assessment and development of mineral resources in over 50 countries. The Group is engaged to identify exploration prospects, undertake, manage or assist in exploration work, assess the extent and quality of mineral reserves, determine the techniques required to exploit commercially any reserves discovered and assess the technical and economic feasibility of development. The Group's public sector clients include international and government development agencies and state and local governments, and its private sector clients range from small to multi-national companies.

The Group's services include geology, geophysical surveys and interpretation, mining engineering, mineral processing and supporting laboratory services for a broad range of minerals including energy resources, industrial raw materials and base and precious metals. Projects on which the Group is currently engaged include the exploration for and development of coal in Africa, Australasia and South America, heavy mineral sands in Egypt, copper, lead and zinc in Canada and gold in Sudan and Australia. Robertson Research was recently commissioned to produce a series of geological and mineral deposit maps of 22 countries from the Atlantic coast of North Africa to the Arabian Peninsula.

Robertson Research conducts hydrogeological and water resource studies for exploration and production in both developed and developing countries. The Group's environmental services of soil and water analysis are used by local governments and development agencies to identify and control potential hazards in areas planned for development. The Group's minerals division also has an oil and coolant analysis facility for assessing engine wear and pinpointing areas of potential future mechanical breakdown.

Wireline logging and other activities

The Group designs and manufactures wireline logging systems and provides wireline logging services. Robertson Research's involvement in wireline logging had its beginnings in water exploration programmes but has now expanded into coal and other minerals. In order to establish itself in this high technology field Robertson Research has made a significant commitment to research and development.

The Group has two wireline logging systems which are of advanced design. The larger digital system is generally made available to clients only on a service basis, whereas the smaller analog system is also available for sale. The sondes developed by Robertson Research are primarily for coal, mineral and water exploration, but equipment is being developed to expand its services into shallow on-shore oil and gas exploration.

Following a successful tender for a major wireline logging contract with the National Coal Board (Opencast Executive) in August 1982, the Group is currently the largest non-hydrocarbon wireline logging contractor operating in the United Kingdom. The Group's existing wireline logging activities are being developed into overseas markets and it is currently engaged on contracts in Africa and the Philippines.

The Group's cartographic department has produced its own high quality reports and maps for several years. This has the advantages of strict security, timeliness and the maintenance of high standards. As well as meeting the Group's own requirements, the cartographic department designs and produces reports and promotional literature for other companies.

Operations

The Group's headquarters and main technical facilities are in Llandudno, North Wales. Work for petroleum and minerals clients in Europe and the Middle East, and wireline logging work, is carried out through the Group's operating subsidiaries in the United Kingdom. Outside Europe and the Middle East, assignments are carried ont largely by the Group's operating subsidiaries in the United States, Canada, Singapore (which also has a representative office in Indonesia) and Australia. For operational reasons, however, some overseas work is handled from the United Kingdom and technical support is provided, where appropriate, from the Group's facilities in Llandudno. Details of the Group's operating subsidiaries are set out in Appendix IV.

The Group's offices in North Wales, Houston and Singapore undertake a full range of laboratory and other supporting technical work for the Group's petroleum services and, together with the offices in Calgary and Sydney, are involved from time to time in the preparation of multi-client studies. Services to the minerals industry are provided principally through the Group's United Kingdom headquarters and the Australian and Canadian subsidiaries. Much of the work for minerals and wireline logging services, however, is carried out directly in the field at the exploration or development site.

Technical development

Development of the Group's technical capabilities takes place in its laboratories and workshops which also carry out specifically commissioned development projects for clients. The Group's geophysics operations in the United Kingdom and Australia have a continuing programme of software development for the interpretation of non-seismic geophysical data obtained by gravitational, magnetic, electric and electro-magnetic techniques.

Marketing
Marketing of the Group's services and the identification of opportunities for initiating multi-client projects is undertaken by directors and other members of senior management as well as by the Group's scientists. Much of the Group's business is attracted by its reputation in the industry and existing clients provide a considerable source of new projects. Some projects are obtained through competitive tendering. Clients

The Group undertakes a variety of assignments for clients throughout the world. In recent years the increased range of services provided by Robertson Research has widened its customer base and no single client currently accounts for a significant part of its turnover. The Group is increasingly undertaking larger assignments, particularly projects in developing countries funded by government agencies, financial institutions and international development organisations.

Competitors

The Group has a number of competitors in its various sectors of activity, including universities; government departments, private laboratories, geological consulting groups and companies specialising in wireline logging. The directors believe, however, that few of Robertson Research's competitors in the United Kingdom or overseas can match the range of services it can offer from its own resources.

Assignments vary in their scale and type from a few hours' work to projects lasting several years, and from the involvement of a single member of the professional staff to multidisciplinary teams and the deployment of significant amounts of equipment and resources. The Group is organised into specialist units within each main operating division, which gives it the flexibility to deal with a wide variety of projects. Multi-disciplinary projects are controlled by a project manager who co-ordinates the work of the specialist units and arranges for the provision of any other resources required.

The Group frequently raises bid bonds, bank guarantees and performance bonds as required for its assignments. Cover is obtained for certain overseas assignments from the Export Credits Guarantee Department. Professional indemnity and public liability cover is maintained at a level which the directors consider appropriate having regard to nature of the Group's business. The Group's work includes the handling of potentially. hazardous substances and it maintains bealth and safety procedures in order to protect employees and the public.

Directors, management and staff

The Company's board of directors is responsible for the overall control of the Group and for defining its policies. Financial control is exercised through a Finance Committee which reports on a regular basis to the board. RRI is the principal United Kingdom operating company of the Group and its board is responsible for the implementation of Group policy. Directors of the Company are represented on the boards of all the overseas subsidiaries. The Company's directors and other senior executives of the Group, and their responsibilines, are set out below:-

Dr. Robert H. Cummings, OBE, aged 60, has been Chairman of the Company since April 1983. He worked for five years with Shell and from 1948 to 1961 held various academic positions including that of senior tutor in geology at the University of Glasgow. He was a founder member of Robertson Research and became its first Managing Director. He has held several Council positions in the CBI and is a member of the Royal Commission for Environmental Pollution and of the House of Commons All Party Committee for

Dr. W. Francis Robertson, aged 64, is Honorary President of the Company and is a director of Bank of Scotland. He was Chairman of the Company from January 1979 m March 1983. He was awarded an honorary LLD by the University of Strathchyde in 1967.

Dr. William W. McB. Brown, aged 48, is the Group Chief Executive and Chairman of RRI. He was a founder of the Group's business, having previously worked for Shell. He has an Honours BSc degree from the University of Glasgow and a PhD from the University

Dr. H. Roy Bichan, aged 42, is Deputy Group Chief Executive and Managing Director of RRI. He joined Robertson Research in 1968 following completion of a doctorate degree in geology and a research fellowship at the University of Leeds. He is the author of several scientific papers and is currently a member of the Council and a Vice President of the Institution of Mining and Metallurgy. Dr. Bichan is non-executive Chairman of

Mr. John T. Clarke, aged 37, joined the Group in 1982 and is responsible for corporate finance. He is a non-executive director of Greenwich and of New Court Natural Resources PLC and a non-executive member of the Committee of Management of Family Assurance

Mr. Lionel H. J. Cook, aged 58, is Vice President, Europe, of SNC. He was appointed a non-executive director in 1979.

Mr. David Caunt, aged 63, is Chairman of R. Gaunt and Sons (Holdings) Limited, a Yorkshire-based textile company. He was appointed a non-executive director in 1975.

Mr. Alexander Taylor, aged 50, is Executive Vice President of SNC. He was appointed a non-executive director in 1981.

Techniques used in finding and extracting hydrocarbons

As the scientific techniques and technical support services used in the exploration for and development of natural resources such as percolcum and other minerals have become more specialised, it has become increasingly cost effective for exploration and development organisations to rely on ontside specialist expertise. Robertson Research provides geological and related technical services to the petroleum and minerals industries, its services in connection with hydrocarbons (oil and gas) accounting for the largest part of the Group's activities. The diagram below shows various phases in the identification and development of an oilfield and some of the services that Robertson Research provides in respect of each phase. respect of each phase.

General geological and geophysical studies Regional photogeology and geological mapping Geophysical interpretation Regional structural studies Basin evaluation Acreage evaluation Prospect identification Identification of exploration areas Detailed geophysical interpretation Initial bioatratigraphy, geochemistry and sedimentology Well-site biostratigraphy Exploration well drilling Detailed biostratigraphy, source rock and oil analysis and sedimentology Stratigraphic interpretation Reservoir studies Porosity and permeability analysis Appraisal well sample analysis Field delineation ictural analysis imentology and reservoir geological modelling Conventional and special core analysis Geological modelling for estimation of oil and gas reserves and for enhancing production Field development Special core analysis

Geophysical data is obtained on rock structures principally through seismic surveys which involve the transmission of acoustic shock waves into rock formations and the detection and measurement of the reflected signals. Biostratigraphy is the analysis of microfossils extracted from rock samples in order to determine the geological age of rocks and the conditions under which they were deposited. The nature and maturity of the organic matter found in rocks is analysed by means of petroleum geochemistry in order to determine their potential in generate hydrocarbons. Sedimentology involves the study of the sedimentary rock layers of the earth's crust, particularly those making up porous or fractured reservoirs which can contain hydrocarbons. Petroleum geologists and geophysicists interpret this information to evaluate the likelihood of a particular hasin containing hydrocarbons in commercial quantities and also its potential for drillable prospects.

Exploration wells are drilled to determine whether prospects contain hydrocarbons. If petroleum is discovered, appraisal wells are drilled in order to establish the size and characteristics of the field and whether its economic development is feasible.

characteristics of the field and whether its economic development is leastble.

The porosity of reservoir rocks is a measure of their capacity in contain fluids. A rock's permeability is a measure of its capacity to allow hydrocarbons and other fluids to pass through it. Conventional core analysis involves the laboratory measurement of the porosity and permeability of reservoir rock samples and the fluids contained in them. Special core analysis is a technique used to recreate the conditions of pressure, temperature and fluid content experienced within a reservoir in order to make a realistic assessment of fluid flow. Reservoir geology involves the description and mapping of reservoir rocks and the construction of a geological model for use in field development and the calculation of oil and gas reserves. Reservoir engineering encompasses the techniques used to enhance the recovery of hydrocarbons from a particular reservoir.

Techniques used in finding and extracting other minerals

Robertson Research provides a wide range of services in relation to the exploration for and development of minerals, including energy resources (such as coal), industrial raw materials (such as limestone and heavy mineral sands), base metals (such as copper, lead and zine) and precious metals (such as gold). The diagram below illustrates some of the principal phases associated with exploration leading to the establishment of a mine, together with some of the services that Robertson Research provides in respect of each

Initial studies	Basie geological research Market analysis
	¥
Regional studies	Regional geological mapping Interpretation of data from satellite imagery/ aerial photography/airborne geophysics Regional geochemistry Geostatistics Detailed geological mapping and geochemistry Detailed ground geophysics Initial drilling programme and wireline logging
	¥
Prospect definition	Detailed drilling programme and wireline logging Preliminary ore reserve estimation Mineral processing studies Infrastructure assessment Ecological studies
	¥
Pre-feasibility studies	Ore reserve estimation Ore body modelling Trial mining and mineral processing Mine or open pit design
	¥
Feasibility studies	Overall technical assessment Financial modelling
	<u> </u>
Mine construction, development and operation	Project management

Wireline logging

Wireline logging is a technique for obtaining continuous geological and related data by means of electro-mechanical devices, known as sondes, lowered into boreholes by cable. The data is transmitted through the cable and recorded by computerised equipment at the surface. The technique complements or replaces the obtaining of rock core samples from the borehole for laboratory testing.

Wireline logging is used in both the petroleum and, increasingly, the minerals industries particularly in coal exploration. Information on strata properties determined from wireline logging includes data on density, porosity, rock type, clay content, coal seam thickness or quality and the potential and likely volumes of fluid flow.

Joint company secretaries

Mr. Alexander M. Jaffé, aged 58, is Company Treasurer and Joint Secretary. He is a Appendix I Chartered Accountant and joined Robertson Research in 1975. Mr. Royce J. Clint, aged 50, is Joint Secretary of the Company and a director of RRI. He joined the Group in 1971.

Other senior executives

Mr. Ronald D. Butler, aged 55, joined the Group in 1971. He is Managing Director of Robertson Research (Australia) Pty. Limited.

Dr. Graham Dolby, aged 40, joined the Group in 1977. He is a director and General Manager of Robertson Research Canada Limited. Mr. Roger W. Goldsmith, aged 51, joined the Group in 1973. He is a director of RRI and Technical Director of petroleum services.

Mr. John Hughes, aged 44. joined the Group in 1978. He is a Chartered Accountant and is Financial Controller of RRI.

Dr. Peter Ibbotson, aged 49, joined the Group in 1967. He is a director of RRI and Managing Director of minerals operations.

Mr. Robert W. L. Oldroyd, aged 46, joined the Group in 1962. He is a director of RRI, with particular responsibility for petroleum business development and multi-client

Dr. Pieter J. Rauwerda, aged 53, joined the Group in 1971. He is Managing Director of Robertson Research (Singapore) Ptc. Limited.

Dr. Michael E. Scrutton, aged 38, joined the Group in 1969. He is Managing Director of Robertson Research (U.S.) Inc.

Dr. E. Brian Wolfenden, aged 51, joined the Group in 1965. He is a director of RRI and Managing Director of petroleum services.

Dr. Anthony J. Wright, aged 48, joined the Group in 1966. He is a director of RRI and Managing Director of wireline logging activities.

Employees

The Group has over 650 staff, of whom over 280 are professionally qualified, including 52 with doctorate degrees. A further 200 are skilled in a technical discipline. Of the total staff approximately 450 are involved in work for the petroleum industry. Robertson Research has a policy of training staff of all grades through a variety of internal and external courses in order to help them develop the more specialised skills required by the Group.

A Staff Council, comprising two directors and the personnel manager of RRI and 12 members of staff, meets monthly and is the main channel of staff communications for United Kingdom employees. Close contact is also maintained with the trade union of which some United Kingdom employees are members. There have not been any industrial disputes within the Group since it was founded and labour relations are good.

The Group operates a contributory pension and life assurance plan and a permanent health insurance plan for eligible United Kingdom employees and a separate non-contributory executive pension scheme for certain senior executives. Separate schemes are operated for overseas employees. A profit related bonus scheme is operated for the employees of the United Kingdom subsidiaries with more than 12 months service. The employees of the United Kingdom statement amounts to 10 per cent. of the consolidated aggregate annual payment under the scheme amounts to 10 per cent. of the consolidated profit before tax of the United Kingdom operating companies after taking account of the allocation under the scheme. Employees in overseas locations participate in benefit schemes appropriate to local circumstances.

schemes appropriate to local circumstances.

The Group has a policy of encouraging the ownership of the Company's shares among management and employees and approximately 30 per cent. of the Ordinary Shares in issue after the Offer for Sale will be held by a total of approximately 90 employees (including directors) before taking into account any shares which they may purchase under the Offer for Sale. The directors propose to consider in due course the introduction of an executive share option scheme.

Financial information

Reasons for the issue and proceeds The directors believe that the listing of the Company's shares on The Stock Exchange and the issue will assist the development of the Group's business and will facilitate the funding.

of its growth and, where appropriate, the making of acquisitions.

Of the 2,564,365 Ordinary Shares now being offered for sale, 1,000,000 shares are new Ordinary Shares being issued for cash and 1,564,365 shares are being made available as to 1,284,761 shares by SNC and as to the balance by certain other shareholders. The net proceeds of the issue of new shares, after deduction of the expenses of the Offer for Sale, are estimated at £1,068,000.

Tur

Net assets
The consolidated net tangible assets of Robertson Research at 30th September, 1983, as shown in paragraph D of the accountants' report in Appendix I, amounted to \$5,405,000. Taking into account the net proceeds of the issue of the new shares, net fangible assets as at that date would be \$6,473,000 representing 52.8p per Ordinary Share on the enlarged Ordinary Share capital. This takes no account of the surplus over book value of the current market value of the Group's listed investments and freehold properties.

Working capital The directors are of the opinion that, having regard to available bank facilities, cash resources and the net proceeds of the issue of the new shares, Robertson Research will have sufficient working capital for its present requirements.

Tracting record.

The following table, based on the accountants' report in Appendix I, summarises the results of the Group for the five years ended 31st March, 1983 and the six months ended. 30th September, 1983.

	Year ended 31st March September
mover	1979 1980 1981 1982 1983 1983 £000 £000 £000 £000 £000 £000 4,139 5,988 8,652 12,635 14,861 7,114
fit before taxation	338 507 879 688 997 832
rnover increased in o	ach of the five years ended 31st March, 1983 and by approximately

260 per cent. during this period. This growth primarily reflected increased demand for the Group's services to the oil and gas industries and, in particular, services to oil companies operating in the North Sea.

Profit before taxation for the year ended 31st March, 1981 benefited from buoyant market conditions in the United States and Australia. During the following two years ended 31st March, 1983 tumover and profits from operations in the United Kingdom and the Far. East continued to grow. However, Group profits during this period were affected by costs associated with the development of the Group's wireline logging business and by the performance of the North American and Australian subsidiaries, which suffered from a downturn in petroleum and minerals exploration and development.

The period since 1st April, 1983 has seen continuing progress in oil and gas operations in the United Kingdom and much improved performances by the North American and Australian subsidiaries, partially offset by further development costs of the Group's wireline logging operations.

The directors forecast that, in the absence of unforescen circumstances and on the bases and assumptions set out in Appendix II, the profit of the Group before taxation for the year ending 31st March, 1984 will not be less than £1.7 million. taxation for the year ending 31st March, 1984 will not be less than \$1.7 million. After deducting an estimated tax charge of 40 per cent, earnings would amount to \$1.02 million, earnings per share would be 9.1p and the price/earnings multiple at the Offer for Sale price would be 17.7 times. After deducting a notional full tax charge of 52 per cent, earnings would amount to \$816,000; earnings per share would amount to 7.2p and the price/earnings multiple would be 22.2 times. These tax charges take no account of the proposed taxation changes announced by the Chancellor of the Exchequer in his Budget statement on 13th March, 1984. The figures for earnings per share have been calculated on the basis of 11,258,200 shares, being the weighted average number of shares in issue for the year ending 31st March, 1984 (after taking into account the adjustments set out in paragraph D(viii) of the accountants' report).

The directors have resolved to pay (subject to the completion of the Offer for Sale) by 31st March, 1984 a special dividend equivalent to 1p per Ordinary Share in respect of the year ending on that date to shareholders on the register on 22nd February, 1984, but do not intend to propose or pay further dividends in respect of that year.

intend to propose or pay further dividends in respect of that year.

If the Company had been a listed company for the whole of the year ending 31st March, 1984 and assuming profits before treation of £1-7 million, the directors would have expected to recommend net dividends totalling 3p per Ordinary Share in respect of that year (equivalent to 4.3p inclusive of tax credit). A total dividend of 4.3p per Ordinary Share (inclusive of tax credit) would represent a gross yield of 2.58 per cent, on the Offer for Sale price and its net cost would be covered 3.0 times by prospective earnings of £1.02 million for the way ending 31st March, 1984. million for the year ending 31st March, 1984.

The directors intend in future years to pay an interim dividend in February and a final dividend in September. It is expected that the first dividend payable after the date of the Offer for Sale would be an interim dividend in respect of the year ending 31st March, 1985 which would be payable in February 1985.

The future

The directors of Robertson Research believe that the Group's reputation has been built on the twin foundations of the excellence of its work and its integrity as an independent organisation. The Group has grown by combining many skills to meet its clients' requirements and by responding quickly and flexibly to changing opportunities in its areas of activity. The directors believe that these qualities equip the Group for continued growth in

Petroleum services will continue to provide the major part of Robertson Research's turnover and profits. Activities in the North Sea are likely to benefit from an increasing demand for petroleum services in post-exploration phases of oil and gas field operations, such as reservoir geology, conventional and special core analysis and other techniques associated with secondary recovery. The geographical expansion of the Group's petroleum services is expected to include areas where existing exploration and development activity is likely to increase, such as East and West Africa and the Americas, and new areas such as off-shore China. The directors are confident of continued opportunities and demand for multi-clies t reports.

The Group intends to extend its coal and mineral wireline logging activities to shallow on-shore petroleum exploration, particularly gas exploration in Europe. Demand for the Group's mineral services is to some extent influenced by the level of world economic activity and changes in the prices of coal, industrial minerals and base and precious metals. The prospects for economic recovery are more encouraging now than they have been for several years and the directors expect Robertson Research to benefit from any والمناز المنتفرة والمناز والمن

The directors are confident that Robertson Research has the breadth of experience, skills, technical capabilities and financial resources to continue its profitable growth.

Accountants' report

The following is a copy of a report to the directors of the Company and the directors of S. G. Warburg & Co. Led. made by the joint authors and reporting accountants:

Ernst & Whinney, Becket House, Becket House, 1 Lambeth Palace Road, London SE1 7EV The Direct

29 Princes Drive. Colwyn Bay, Clwyd, orth Wales LL29 8FE 15th March, 1984

We have examined the audited accounts of Robertson Research pic ("the Company") and its subsidiaries (togethe "the Group") for the five years ended 31st March, 1983 and for the she months ended 50th September, 1983; The accounts for the four years ended 31st March, 1982 were audited by Aston, Parkinson & Gadd and the accounts for the year ended 51st March, 1983 and for the ske months ended 50th September, 1983 were audited jointly by Renast & Whinney and Asson, Parkinson & Gadd. The following transactions have been reflected in the summarised financial information set our below as if they find aken place prior to 1st April, 1978:--

(i) Robertson Research Engineering Services Limited ("RRES") commenced trading as a wholly owned subsidiary of the Company on 1st April, 1978. On 9th January, 1979, the Welsh Development Ageacy ("WDA") acquired 50 per cent. of the issued share capital of RRES but, as from 21st Determber, 1982, the Company acquired half of those shares and RRES became a 75 per cent. subsidiary of the Company. On 12th March, 1986, the Company entered into an agreement with the WDA, conditional upon the admission by the Company of 15th March, 1986, the Exchange of the Ordinary shares of the Company to the Official List, whereby the Company will acquire the remaining part of the issued share capital of RRES not sire advocated by the Company for a consideration satisfied by the issue, credited as fully paid, of 65,000 Ordinary shares of 10p each.

(ii) On 19th December, 1983, the Company sequired that part of the issued share capital of Robertson Research (U.S.) Inc. ("RR(US)") and Robertson Research Canada Limited ("RR Canada") respectively nor abried by the Company at that date for an aggregate consideration of \$227,250 satisfied by the issue, credited in fully paid,"

The summarised financial information set out below under the heading "Historical cost accounts." has been derived from the audited accounts of the Group, adjusted as we consider appropriate and on the basis that the Group had been as presently constituted throughout the period. In our opinion this information gives, on the basis of the historical cost convention modified by the revaluation of certain freshold properties and items of equipment, a true and fair view of the profits and source and application of funds of the Group for the five years ended 3 is March, 1983 and of the state of affairs of the Company and of the Group as at 30th September, 1983 and of the state of affairs of the Company and of the Group as at 30th September, 1983.

The summarised financial information set out below under the beading "Current one accounts" has been derived. from the abridged supplementary current cost accounts of the Group for the two years ended Siss March, 1983, adjusted as we consider appropriate and on the basis that the Group had been as presently constituted throughout those two years. In our opinion this information has been properly prepared in accordance with the policies and methods set out in the notes to give the information required by Statement of Standard Accounting Practice No. 16. No audited accounts have been prepared for the Group for any period subsequent to 30th September, 1983.

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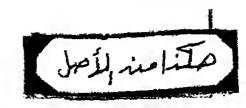
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Robertson Research plc	(iv) Dividenda du	ning the period were as follows —			Six months ended 30th	f) On 13th March, 1984, eve shown to v., dt and e) above, v	Mete doutonquied rate ou	e Ordinary share	e of 1Up.	
2000 of their recoduler pro		1970 2000	Year ended 31st Ma 1980 1981 £000 £000	1982 1983 1000 1000	September 1983	g' On 12th March, 1984, the sty the creation of an additional b) On 12th March, 1984, on	J 12,000,000 Ordinary sh relitional moon the Ordin	ares of 10p cach.	I of the Company	ny beine
Mistarical cost accounts	Preference Ordinary	3	3 3 51 68	3 4 85 102	1	Official List, 8,383,750 Ordinar sure of 1838,875 satisfied partly partly by an amount of 4263,20	v shares of 10p each were i by the balance of £575,60	issued, credited as 18 standing to the	s fully paid, by wa credit of the shar	ray of car
B Accounting policies The right-cast accounting policies of the Group, which have been consistently applied to arriving at the financial	Deferred Less arrounts wain		 	88 106 9 13		i) Under an agreement dated being admirted to the Official consideration for the acquisition	List, 65,000 Ordinary	shares of 10p wil	rill be insued, cre	redited a
information set out in this section of the report, are as foliows:			54 75	79 93		by the Company at such date. The share capital of the Con-				
The accounts are prepared under the historical cast curvention modified by the revaleation of certain freshold properties and items of equipment.	At 30th September shares (C1,000) and paid.	r, 1983 dividends proposed in respi d the Ondinary shares (£102,000) ke	eet of the Participation t the year ended 31st h	g Convertible Gumula Jarch, 1983 had not be	tive Preference en approved or	comprised:—			Aut	thorised S
(II) Bases of connectioning	1965 are based on i	per share for the five years ended 3 the profit after taxation and before a in insue as follows:—	lat March, 1983 and to etraordinary stems in	he six months ended 3 each period and the we	Och September, ighted average	Ordinary shares of 10p each (ix) Reserves comprised:—				,600,000
The consolidated accounts include the accounts of the Company and each of its subsidiaries made up in 31st March each year and to 30th September for the six stouchs easted 30th September, 1963, after eliminating lettra Group continue.			Year ended 51st Mar	rch	Six months raded 30th September	Share premium			Co	COMPANY EDOC 33
trading.	Profit after taxation	1979 2000 243	1960 1981 2000 2000 450 613	1962 1983 2000 2000	£981 0002	Capital reserve Revaluation reserve Translation reserve				Ξ
Tumover comprises the invoiced value of goods and services supplied by the Group, exclusive of value added tax.	Weighted average of equivalent Order	number		537 643	528	Profit and loss account				462
(iv) Associated companies	shares of top in in	age number of Ordinary shares in i	41,252 11,250,000 11 June has been adjuste	d from the beginning	11,250,000 of the period to	The bolances on the share press adjusted in reflect the transacti (x) No provision has been made	ons set out in (viii) above	E.,		
The Group's there of profits of its associated companies is included in the consolidated profit and loss account and its share of post acquisition reserves is included in the complicated balance sheet.	lúp each to be suit	ums set out in passeraph D(vin) bek scribed and affered for sale in the p	oublic, or the pet proce	en taken of the new Ord teds therefrom.	mary shares of	differences, since it is unlikely respect of deferred taxation, £1,528,000 at 50th September,	that such a liability will which arises mainly fro	arise in the forces	eceable future. T	The pot
(v) Depreciation Freehold properties are maintained, as a matter of Group policy, by a programme of repair and refurbishment such		te belance threts of the Company and	d the Group as at 30th	September, 1983 wer Note	e as follows: Group	(zi) Az 30th September, 198 £376,000. (zii) Az 30th September, 1983				
Freehold properties are maintained, as a matter of Group policy, by a programme of repair and refurbishment such that the residual values of the properties are as least equal to their book values. Having regard to that it is the opinion of the directions that depreciation of the properties as required by standard accounting practice would not be material. Depreciation is provided on other tangible assets satisfy on the straight like basis, having regard to their estimated useful lives and expressed residual values, at the following rates per annum:	Company	Fixed marts —Tampble assets			4.644	cent. debenture stock created be September, 1983, the unissued supen the Ordinary share capital be repaid at par. Such stock has	or unimused and agreeming	rately \$77.000 of a	such debentuer si	stack is
Learnhold improvements	1,655	—latricite to subsidiaries —latricite			767	be repaid at par. Such stock has (xiii) At 30th September, 1965 of a subsidiary's bank overdraft	been included in the balar 3, the Company had given 4. Other Group controver	or sheer at 30th Se a counter-indem a liabilities come	ieptember, 1983 i anity of appreximation	under c nately f
Equipment 10—33% per cent. Furniture 5—10 per cent. Motor vehicles 20—25 per cent.	1,756	Current assets			5,411	a) leasing contracts atnounting by guarantees in respect of a t	ng to £297,000;			
(vi) Stocks and work in progress		—Sincks and work in progress —Debtors —Bank balances			4,219 538	c) counter-indemnities for ba £494,000; d) guarantees of an associated	_			_
Stocks and work in progress are valued at the lower of cost and net realisable value after making due allowances for any obsolete or alow moving items.		Current Esbilities			5,583	rental of approximately £7 e) guarantees of approximate	2,000; and by \$18,000 (limited to a m	0.813 Jo municus	000) in respect of	
(vii) Long sirm contracts	22 12	Creditors Hure purchase liabilities Taxation Paramed dividends		(N)	2,786 157 502	E Statements of source and ap	application of funds			Mand
Profit on long term contracts is recognised by accruing profit appropriate to the stage reached on the contract if its outcome is foreseeable prior to completion. Full provision is made for any anticipated losses on contracts in hand.	103	—Proposed dividends —Bank overdrafts		(v)	103 796 4,344	The statements of source and ap months ended 30th September,				
(viii) Research and development Expenditure on research and development is charged to the profit and loss account to the period in which it is	(136)	Net current assets (liabilities)			1,239		1979 1980 £000 £000	ended 51st Marc 1981 2000	2891 0000	19
incurred.	1,620	Total sucts less current liabili Loss capital	idet .	(vi)	6,650 750	Source of funds Profit before taxation Items not involving	538 507		688	9
(ix) Deferred excation Deferred excation is provided on the liability method on abort term timing differences and all other material timing differences which are not expected to continue in the future.	1,620	Deferred liabilities Total assets less liabilities		(vii)	3,465	the movement of funds: —Depreciation	117 148	256	361	5
(x) Foreign correscies	1,125	Called up share capital		(viii) (is)	1,125	-Share of profits of associated companies -Translation adjustments	(2) (4) 7 2	(1)	(26) 26	(
In individual Group companies, transactions denominated in foreign currencies are recorded at the rate of exchange ruling at the date of the transaction; monetary sweet and liabilities denominated in foreign currencies at the balance short date are translated at the rate of exchange ruling on that date. All exchange differences that arising are dealt with an over of the next that the rate of exchange ruling on that date.	1,620	Reserves		(is)	5,405	Disposal of tangible assets Disposal of mineral	4 3	136	17	
when we have on one respect that that besting	Notes on the balan	ace sheets				interests Disposal of investments Lisue of theres		Ξ	41 23 29	
On consolidation, assets, liabilistics and reserves of overseas subsidiary companies are translated as the rate of exchange at the balance aheet date. All translation adjustments arising on consolidation are included in reserves.	(i) Tangible assets (of the Group comprised:	Cost or	Paradole .	Net book	Repayment of loan Loan capital		10	10	
(zi) Government grants . Amounts receivable in respect of capital based grants are set off against the costs of relevant assets before	Freehold properties		2003 2003 210,1	Depreciation £000	2000 1,043	Total sources Application of funds Working capital	464 t,173	1,290	1,169	1,6
depreciation. (xiii) Rehates	Leasehold improver Equipment and fun Motor vehicles	menis	4,935 196	174 1,459 88	3,446 108	increase (decrease): Stocks and work in progress	42 95	(41)	156	
The Group contracts to give relates to elicats in connection with certain sales of multi-client reports. These relates may be obtained only as a reduction of the purchase price for other multi-client reports and their contractual			6,395	1,751	4,644	Debtors Creditors Hire purchase	134 507 (154) (520)		1,145 (887)	(7)
nay be obtained only as a reduction of the purchase price for other multi-diseat reports and their contractival realistic price and their contractival realistic papers after a determined period, usually about four years. The value of outstanding potential relates is assumed at the end of each accounting period and an appropriate provision is made in the account in respect of such south is liabilities based on the Group's experience of their quilisation. The provision in the balance abect is appropriately between current, and deferred liabilities.	The freehold proper open market basis was aggregate cost of £6	ries included properties which were i with variant possession. Subsequent	independently valued indicated in additions to freehold	at £355,000 on 17th Apr properties are shown	ill,)979, on an above at their	habilities	(21) (63)	(24)	<u>(8)</u>	(7)
pportuned appropriately between current and deferred liabilities.	Certain Items includ	ded in equipment and furniture has	re been revalued as fol	llows: Value at		Descried liabilities	1 119	<u>(141)</u> 650	(539)	(50
The historical cost profit and loss accounts of the Group for the five years ended 31st March, 1983 and the six months under 50th September, 1983 were as follows:—	Date of valuation		nis of hation	revoluzion E000	Net book amount £000	Additions to tangible assets Acquisition of mineral interests	441 809	984	1,096	1,18
Year ended 31st March ended 30th September	1st April, 1978 31st March, 1980	professional valuers	isting use preciated	516	168	Acquisition of investments	24 -	56	198	3.
Note 1979 1980 1981 1982 1983 1983 1983 1983 1983 1983 1983 1983		professional valuers rep Directors De	inicial cost	131 226	123 214	Tax paid Dividends paid Loan and mortsage	50 55 3 25	113 54	67 62	3
Turnerver 4,139 5,988 8,652 12,635 14,861 7,114 Cost of sales (7) 5,803 5,485 7,774 11,973 13,921 6,519 Operating profit 396 503 878 662 940 795		• .		873	\$05	Coses of share issues	20 1	. 19	30	
there of profits f associated, nonpassies, 2 4 1 26 57 57		reviewsly been written off on purch sidiaries comprised:—	AMC.			Total spolications Increase (decrease) in net liquid funds	(75) 166	(637)	1,290 (121)	<u>1,2</u>
Predit before 338 307 879 688 997 232 Taxation (5) 95 57 266 151 354 304	Shares at One?				Company E000 354	Courtest cost acrounts				
Profit after 243 450 515 537 643 528	on current account	ants owing by subsidiaries to the Co	ombata		1,501	P Accounting policies The current cost accounts have it 16. Except as set out below, the	been prepared in Complian	nce with Stateme	ent of Standard A	Account
Extraordinary (io) 47 _ 25 70	(iii) Investments co	mprised:—		Company 2000	Group	 16. Except as set out below, the athe historical cost accounts. (i) Tangible assets and deprecent 		a the corrent cost	t accounts are the	ie same
attributable to members 243 450 660 560 643 598	(Group market value	d overseas stock exchanges in E3,254,000)		75	. E000	Plant and machinery has been re Canada and the United States as were included at their then most	rvalued at 31st March, 19 nd evaluated on a similar	02 and at 31st Ma basis in other ove	arch, 1983 withir erseus aubeidiari	n the U
Dividends (iv) 23 54 71 79 93 1 Retained profit 220 396 589 481 550 597	-Share of post acqu			26	46 105	Tangible assets are depreciated in	in the current mat account	te commenciade sin	milar to those or count represent	sed in th
Examings per share (v) 2.4p 4.5p 5.4p 4.8p 5.7p 4.7p	The listed investmen	nie comprisció-		101	767	accounts. Total depreciation char proportion of tangible assets or between the depreciation charge of tangible assets represent the di	dictence between the busic	The depreciation t current cost acc orical cost and cur	adjustment rep sounts. The adju- treat cost net bot	present stracoti ok value
Notes on the profit and loss accounts (1) Cost of sales included:—	Shares in Orecawich	4		1000 75	604 12	question at the dates of disposal (ii) Working capital				
Six months ended 30th				75	£15	This includes stocks, work to p liabilities. In order to allow for a operating costs calculated on the adjustments are based on mover	he impact of price chang historical cost basis, one	on stock and the o	upital, two adjusts other on monetar	trocous
1979 1980 1981 1962 1983 1983 1983 1983 1983	a) The Group's sage	um in Greenwich have been acquire	og tra littlidaks:	Number of shares	Book	(iii) The graving adjustment This represents that part of the c				
Directors' emoluments . 55 74 81 130 143 75	Part of consideration mineral interests (pa	ungraph G (i))		400,000	435	assets.	d by reference to the aver-	age proportion the	rue broastes or	ga bear
Learing and hire charges 39 57 105 196 267 119 Gain on disposal of mineral	Encrow shares release Shares still held in a Consideration for sai	sed (see below) sacrow (see below) de on 27th April, 1983 of 364,687 or velopments F.L.C. (*Minest*)	rdinary	30,000 120,000	168	G Current cost profit and loss a The current cost profit and loss a		the two years end		
The gain on disposal of mineral interests represents the profit on the sale of those interests, in July 1981, to				1,458,748 2,008,748	604				19	Year en 982 900
common shares without par value in Greenwich ("Greenwich shares") which were to be issued to the Group over- here years, subject to the approval of the Vancouver Stock Exchange. The shares were issued as follows:—	30th September, 198	roup acquired from a director of Gr d in escrow, for a consideration of G H. The remaining 120,000 shares we	re then still held in esc	row and could not be t	raded on The	Turnover Historical cost profit before inter			12,6	_
Number Market value on of shares date insued 2000	released, leaving 82, The shares acquired	er Stock Exchanges until they were 500 shares still held in escrow. I as consideration for the sale of the	mineral interests are	included at the marke	value of the	Deduct current cost operating at —Cost of sales —Monetary working capital				907 (14) (66)
Year ended 51st March, 1983 150,000 132 Six menths ended 30th September, 1983 140,000 246	the ordinary shares it As an additional part	rhen they were issued. The book am in Minex represents the original cos t of the comideration for the sale of i	st to the Group of the its Mines shares to Gr	se shares.	rived 72 937	- Depreciation - Disposal of tangible assets			(1)	(4)
	Creamich share at a	receiveds. The warranty carry the a a price of C\$3.00 per share for every 1983, the Group's shares and warran	y two warrants beld.			Current cost operating profit —Interest —Gearing adjustments			(2	529 219) 29
he gain on disposal set out above reflects the difference between the book amount and the sum of the cash neederation, the market value of the shares issued on the date received and the market value of the shares still to be used as recalculated at the end of each relevant accounting period and translated at the exchange rate appropriate	an aggregate market b) The other listed is	s value of £3, 196,000. investment had a market value at 30	Oth September, 1983 o	of £38,000.		Current cost profit before taxatic	382			439 131
t the balance sheet date. (i) The charge for taxation, which was based on the profits for the period, comprised:—	(baragraph & (xii)) a	s included £212,000 in respect of the and £77,000 in respect of the issued amounting to £609,000 were secur	debenture stock refer	the provision for pote red to io sub-paragrapi	ntial rebates (xii) below.	Current cost profit before extraor	rdinary item			_
Year ended 31st March Conded 30th September	(as) Posts cabiers con (a) Posts cabiers con		-		Group 2000	Extraordinary item Current cost profit attributable : Dividends	to members		- 3	288 25 31 <i>1</i> 79
\$000 £000 £000 £000 £000 £000 £000 £000	in yen edual half year	ere secured on the assets of a subsidi- ely insulments commencing let Sep- manyable £150,000 on Tier July 198	nomber 1985		£000 250	Retained current cost profit				79 232
er cent. 16 (34) 71 131 237 247 cent relief for overstens	£150,000 on 31st Jul	payable £150,000 on 31st July, 196 y, 1987 and £200,000 on 31st July,	1988		750	H Corrent cost balance sheet The Group's current cost balance	•	185 was as follow:	5 }—	
associated companies	(vii) Deferred liability	des comprised:—			Group	Tangible assets Lovestments -Associated companies				Note (i)
95 57 256 131 354 504	Provision for potentia	ors due after 30th September, 1984 al rebates (paragraph B (xii))			2000 228 212	—Other Net current assets				
The charge for U.K., corporation tax for each financial period has been reduced by:— Six months ended 50th	Government grades Others	· · · · · · · · · · · · · · · · · · ·			47 8	Total assets less current liabilitée Lonn capital Deferred liabilities	•			
Year ended 31st March September 1979 1980 1981 1982 1983 1983	(vill) Arena c	ember, 1983 the authorized and			495	Total assets less liabilities Capital and reserves				
apital allowances 76 217 226 196 220 (28)	called up share Capit	ember, 1983 the authorised and al of the Company comprised;—		Authorised	Called up	—Share capital —Current cost reserve —Other reserves				(ä)
72 223 229 202 226 (24)	Ordinary shares of 5 Participation Conver	p each Able Genulative Preference shares	of 5n rach	193,750 6,000	85,375 4,000	Notes on the current cost belan	sce sheet			
	Participating Convert Deferred shares of Sp		- y card	6,000 250 200,000	4,000 250 89,625	(i) Tangible assets comprised:		C	wrent	
be period.	a) On lath No.	aber, 1983, the authorised share ea	acital of the Camera	w use increased from	£300,000 m	Land and buildings			1,566	201
ii) The extraordinary items represented— Sie months ended 30th	C400,000 by the Creati 5p each were issued, c	ion of 4,000,000 Ordinary shares of a credited as fully paid by way of capita out of the Company, to the bolds	p each and on the sam disation of the sam of i	e date 3,575,000 Ordin 178,750 standing to the	ury shares of e credit of the Conversible	Plant and machinery				3,416 3,617
TOT CHARLES THE BEAUCH	COMMANYE PRESERVE	to house as sensuing at men date !	but uses to rues, policy	DE3-		(ii) Current cost reserve compre	ised:			
0000 0001 0000 0001 0001	ior the appregate core	ort, 1983, 225,000 Ordinary shares o sideration of £227,250 for the acquis sed share capital of RR(US) and RR	ition, with effect from Canada respectively	let Ocrober, 1983, by t not already owned by t	he Company he Company	Revolution of tangible assets Cost of sales adjustment Monetary working capital adjust	tment			
Infit on disposal of premises — — 47 = - = 1	at such date.					Caral				
rofit on disposal of premises 47 23 70	at such date. a) During February	y, 1984, each of the 80,000 issued ip was converted into an Ordinary	and fully paid Fart share of 5p.	deparing Convertible	Cumulative	Gearing adjustment				

Robertson Research plc

Appendix II

Profit forecast: bases, assumptions and letters

Reses and assumptions be forecast of the prolit of the Group before taxation for the year ending 31st March, 1984 of not less than £1.7 illion has been made by the directors—

(i) on the basis of the audited accounts for the six months ended 30th September, 1983, the unaudited management accounts for the three months ended 51st December, 1983 and management information for

(ii) on the principal assumptions that there will be no material change to the current exchange rates and that trading will not be materially affected by any circumstances beyond the Group's control.

The following are copies of letters relating to the profit forecast for the year ending 51st March, 1964:-Letter from Ernst & Whinney and Aston, Parkinson & Gadd:

Gwynedd, North Wales LL30 ISA

15th March, 1984

We have reviewed the accounting bases applied and calculations made as preparing the forecast of profit before taxation of Robertson Research plc and its subsidiaries ("the Group") for the year ending 11st March, 1984 (for which forecast you, as directors, are solely responsible). This forecast, which is contained in the paragraph headed "Financial information-profit forecast" of the Offer for Sale dated 15th March, 1984, includes the audited results for the six months ended 30th September, 1983 and the results shown by the unaudited management accounts for the subsequent three months ended 31st December, 1983.

In our opinion, the forecast of profit before taxation, in far as the accounting bases and calculations are concerned, has been properly compiled on the footing of the principal assumptions set out in Appendix II of the Offer for Sale and is presented on a basis consistent with the accounting policies normally adopted by the Group.

ERNST & WHINNEY

ASTON, PARKINSON & GADD
Chartered Accountants

Letter from S. G. Warburg & Co. Ltd.: The Directors, Robertson Research pic, Ty'n-y-Coed, Liambon, Liambudno,

Gwynedd, North Wales LL30 15A

15th March: 1984

We have discussed with you the profit forecast of Robertson Research pic and its subsidiaries for the year ending 31st March, 1984 and the principal assumptions on which it is based, set out in the Offer for Sale dated 15th March, 1984. We have also discussed with Ernst & Whinney and Aston, Parkinson & Gadd the work they have done in respect of the forecast as set out in their letter to you dated 15th March, 1984. We consider that the profit forecast (for which you, as directors, are solely responsible) has been made after the and careful enquiry.

for S. G. WARBURG & CO. LTD.

Appendix III

Premises

Robertson Research occupies freehold properties as Ty'n-y-Cood, Llanthos and Back York Road, Deganwy, both in Gwynedd, North Wales.

The Group's headquarters were established at Ty'n-y-Coed in 1969. Ty'n-y-Coed comprises offices and Jahoratories on a 5.89 acre site. The original building dates from 1892 and extensions were added as the 1940s. New buildings housing petroleum and mineral operations were completed in 1981 and 1983 respectively and further extensions are under construction. Total floor area comprises approximately 95,000 square feet. The property as Back York Road is a small industrial unit of approximately 6,000 square feet.

The properties at Ty'n-y-Cord and at Back York Road were independently revalued as at 31st Dec. £1,440,000 and £37,000 respectively, on the basis of open market value assuming existing use. The Group also leases the following premises as the United Kingdom and overseas:-

Location and description	Correst annual rent	Expiry	Date of next rent review	area in square feet .
3, 5 and 7 Catherine Place, City of Westminster, London Offices	£32,500	. 28th September, 1996	29th September, 1984	3,200
Unit 1 Wellheads Crescent Trading Estate, Dyce, Aberdeen Laboratories	£9,075	31st January, 2005	25th March, 1985	3,432
Units 3, 5 and 6 Wellheads Crescent Trading Estate, Dyce, Aberdeen Laboratories	£27,460	25th March, 2004	25ch March, 1987	10,298
Llandudno Junction, Gwynedd, North Wales Core preparation and atorago	£14,000 ·	27th September, 1992 (agreement for lease)	28th September, 1987	10,000
77 Pacific Highway, Sydocy, Australia Offices	A\$117,702	18th October, 1987	19th April, 1985	7,683
333 Adelside Street, Brisbane, Australia Offices	A\$29,388 (subject to review)	30th November, 1965	-	3,225
Lougheed Building, Third Floor, 604-1st Street S.W. Calgary, Canada Offices and laboratories	C\$39,172	30th June, 1984 and 30th June, 1988	_	5,195
Suites 306 and 316, 16730 and 16515 Hedgecroft, Houston, Texas, United States Offices and Laboratories	US\$110,544 rising to US\$122,004	31st August, and 30th September, 1986	· - .	19,546
Units 10-21, Block 6 and Units 25-26, Block 7, 55 Ayer Rajah Industrial Estate, Singapore Offices and laboratories	S\$129,171	15th April and S1st August, 1984	- '	13,092

Appendix IV

Statutory and General Information

(a) The Company, then named Robertson Research Holdings Limited, was incorporated in England no. 1212766 as a private company on 16th May, 1973 under the Companies Acts 1948 to 1967 with an authorised share capital of £200,000. The Company changed its name to Robertson Research Limited on 13th March, 1984 and re-registered as a public company on the same date.

At 15th March, 1982 the authorised share capital of the Company was £200,000 divided into 3,875,000 Ordinary shares of 5p each, of which 1,707,500 were issued, 120,000 Participating Convertible Convelative Preference shares of 5p each, of which 80,000 were issued, and 5,000 Deferred shares of 5p each, all of which were issued. Ghanges to the authorised and issued share capital of the Company during the two years preceding the date of this Offer for Sale and proposed changes are as follows:—

(i) on 14th November, 1983 the authorised share capital of the Company was increased from E200,000 to £400,000 by the creation of 4,000,000 Ordinary shares of 5p each and on the same date 3,575,000 Ordinary shares of 5p each were issued, credited as fully paid, by way of capitalisation of the sum of £178,750 standing to the credit of the share premium actount of the Company to the holders of Ordinary shares of 5p each and/or Participating Convertible Cumulative Preference shares of 5p each in the capital of the Company is aminence at such date per rata to their holdings;

(ii) on 19th December, 1983 225,000 Ordinary shares of 5p each were issued, credited as fully paid, as consideration for the acquisition pursuant to the Agreements referred to in paragraph 8(v) below by the Company from SNC with effect from 1st October, 1983 of that part of the issued share capital of Robertson Research (U.S.) Inc. and Robertson Research Canada Limited respectively not already owned by the Company at such date;

(iii) by notices of conversion dated 17th February, 1984 and 22nd February, 1984 each of the 80,000 issued Participating Convertible Cumulative Preference shares of 5p was converted into one Ordinary share of 5p, pursuant to the Articles of Association of the Company in force at such dates;

5p. personant to the Aracles of Association of the Comparty in torce at such dates;
(av) on 12th March, 1984 each of the unissued Participating Convertible Commutative Preference shares of 5p was reclassified as an Ordinary share of 5p, each Deferred share of 5p was converted into one Ordinary share of 5p, every two Ordinary shares of 5p each were consolidated into one Ordinary Share, the authorised share rapital of the Company was increased from £400,000 no £1,600,000 by the creation of 12,000,000 new Ordinary Shares and, conditional upon the Ordinary Share capital of the Company, issued and now being issued, being admitted as the Official List, 8,388,730 new Ordinary Shares were setted, credited as fully paid, by way of capitalisation of the sum of £838,875 standing to the credit of the share premaium account and retained profits of the Company, to the holders of Ordinary Shares as at such date pro rats to their holdings on the basis of three new Ordinary Shares for every Ordinary Share then held:

(v) on 15th March, 1984 pursuant so the Purchase and Subscription Agreement referred to in paragraph 4 below, conditional upon the Ordinary Share capital of the Company, issued and now being issued, being admitted to the Official List, 1,000,000 new Ordinary Shares were provisionally allotted as S. G. Warburg & Co. Ltd.; and

(vi) on 18th March, 1983 the changes to the capital of Robertson Research Engineering Services Limited ["RRES") referred to in paragraph 8(ii) below, and, on 12th March, 1984, the arrangements referred to in paragraph 8(vi) below, were effected. The Agreement referred to in paragraph 3(vi) below involved the issue, credited as fully paid, of 65,000 Ordinary Shares, conditional upon the Ordinary Share capital of the Company, issued and now being issued, being admitted to the Official List.

By Special Resolution passed on 12th March, 1984, conditional upon the Ordinary Share capital of the Company, issued and now being issued, being admitted to the Official List, the directors were generally authorised, pursuant to Section 14 of the Companies Act 1980, as allor relevant securities (as defined is that Section) limited to the amount of the unissued share capital of the Company on such date, such authority expiring on 11th March, 1989.

By Special Resolution passed on 12th March, 1984, conditional upon the Ordinary Share capital of the Company, issued and now being issued, being admitted in the Official List, the directors were empowered, pursuant to Section 18 of the Companies Act 1980, in allot equity securities (as defined in Section 17 of that Act pursuant to the authority referred to to sub-paragraph (c) above as if Section 17(1) of that Act did not apply. This power expires on the date of the Company's Annual General Meeting to be held in the calendar year 1985 and is limited its—

(i) the alloument of stares as or to the order of S. G. Warburg & Co. Ltd. pursuant as the Purchase and Subscription Agreement referred to in paragraph 4 below; sents in connection with rights issues;

(iii) the allotment (otherwise than pursuant to (i) or (ii) above) of a maximum of 5 per cent. of the nominal amount of the authorised share capital of the Company as at 12th March, 1984.

ollowing this Offer for Sale the authorised share capital of the Company will be £1,600,000 divided into 6,000,000 Ordinary Status of which 12,250,000 will be as issue fully paid or credited as fully paid.

No share or loan capital of the Company or any of its subsidiaries is under option or agreed conditionally or unconditionally to be put under option.

Save as disclosed or referred as in paragraph 1(b) above no share or loan capital of the Company or any of its subsidiaries has been issued within two years immediately preceding the date of this Offer for Sale or is now proposed to be issued, fully or partly paid, either for each or for a consideration other than cash:

Save as disclosed as paragraph 4 below on commissions, discounts, brokerages or other special terms have been granted by the Company or any of its subsidiaries within two years immediately preceding the date of this Offier for Sale in connection with the issue or sale of any share or loan capital of such companies. No material issue of shares of the Company (other than pursuant to the Purchase and Subscription Agreement referred to in paragraph 4 below or to shareholders pro rata to their existing holdings) will be made within one year of the date of this Offer for Sale without the prior approval of the Company in General

Following this Offer for Sale 3,750,000 Ordinary Shares will remain uninsued but no issue of shares which would effectively alter the control of the Company will be made without the prior approval of the Company to General Meeting.

The Articles of Association of the Company contain provisions, toter alia, to the following effects

Subject to any special rights or restrictions (of which there are none at present) as to voting attached to the shares, on a show of hands every member who (being an individual) is present as person or (being a corporation) is present by a representative not being himself a member shall have one vote and on a poll every member who is present in person or by proxy, shall have one vote for every share of which he is the holder. A member shall not be entitled to vote unless all calls or other sums presently payable by him have been paid or, without the consent of the directors, as respect of all shares held by him if he or any person appearing to be interested in such shares has been duly served with a notice under Section 24 of the Companies Act 1984 and fails to provide the Company with the information thereby required within 28 days of the date of service of such notice.

Rights attached to any class of shares may (unless otherwise provided by the terms of issue of the shares of that class) be modified or abrogated either with the consent in writing of the holders of three-fourths of the issued shares of that class or with the sanction of an Extraordinary Resolution passed at a separate General Meeting of the holders of shares of that class, but not otherwise. The special rights conferred upon the holders of any shares or class of shares settled with preferred or other rights shall not, unless otherwise expressly provided by the terms of issue of such shares or class of shares, be deemed to be modified by the creation or assee of further shares ranking pari passu therewith.

(a) No shareholding qualification shall be required of a director.

(b) Unless and until otherwise determined by the Company in General Meeting, the directors shall not be less than two or more than twelve as number.

(c) The ordinary remoneration of the directors shall in the aggregate not exceed \$30,000 per annum together with such additional free as the Company may in General Meeting determine. Such remuneration shall be divisible among the directors as they may by resolution determine or, in default of determination, equally. The directors may funless otherwise expressly resolved by the Company in General Meeting) grant such extra remuneration by way of salary, percentage of profits or otherwise as they may determine as any director who, at the request of the directors, performs special services or goes or resides abroad for any purposes of the Company. The directors may also be paid all travelling, hotel and other expenses properly incurred by them in attending and returning from meetings of the directors or any committee of the directors or General Meetings of the Company or in connection with the business of the Company.

The directors may from time to since appoint one or more of their number to an executive office. A director holding executive office shall receive such remuneration (whether by way of salary, commission or participation in profits or partly as one way and partly as another) as the directors may determine and such remuneration shall, unless otherwise agreed, he additional to such remuneration (if any) payable to him as a director.

A director may hold any other office or place of profit with the Company (except that of Auditor) in conjunction with his office of director for such period and upon such terms as the directors may determine and may be paid such extra remuneration therefor as the directors may determine. A director may act by himself or his firm in a professional capacity for the Company (otherwise than as Auditor) and he or his firm shall be entitled to remuneration for professional services as if he were not a director.

A director may be or become a director or other officer of, or otherwise interested in, any company promoted by the Company or in which the Company may be interested and shall not be liable to account to the Company or the members for any remuneration, profit or any other benefit received by him as a director or officer of or from his interest in such other company. The directors may also cause the voring open conferred by the shares in any other contents by the Saraes in any other company held or owned by the Company to be exercised as such marmer as they think fit, including the exercise thereof in favour of any resolution appointing the directors or any of them to be directors or officers of such other company, or voting or providing for the payment of remimeration to the directors or officers of such other company.

(g) Subject to the Companies Acts 1948 to 1963 and as sub-paragraph (h) below, on director or proposed or intending director shall be disqualified by his office from contracting with the Company either with regard to his tenure of any office or place of profit or as vendor, purchases or in any other memore whatever, nor shall any such contract or any other contract or arrangement in which any director is in any way interested he liable to be avoided, nor shall any director as contracting or being so interested he fishle to account to the Company or the members for any remuneration, profit or other benefits realized by any such contract or arrangement by reason of such director holding that office or of the fiduciary relationship thereby established.

or such director holding that office or of the fiduciary relationship thereby established.

A director who to his knowledge is in any way, whether directly or indirectly, interested in a contract or arrangement or proposed contract or arrangement with the Company shall declare the nature of his interest at the meeting of the directors at which the question of entering into the contract or arrangement is first taken into consideration, if he knows his interest then exists, or in any other case as the first meeting of the directors after he knows that he is or has become as interested. A general notice to the directors given by a director to the effect that he is a member of a specified company or firm and is to be regarded as interested in any contract or arrangement which may after the date of the notice he made with such company or firm shall be sufficient declaration of interest under this paragraph in relation to any contract or arrangement in made; provided that no such notice shall be effective unless either it is given at a meeting of the directors or the director after it is given.

Save as provided in paragraph (j) below, a director shall not vote (nor be counted in the quorum) on any resolution of the directors in respect of any contract or arrangement in which he is as his knowledge, directly or indirectly, materially interested and if he shall do so his vote shall not be counted.

(i) The prohibition described in paragraph (i) above shall not apply to any of the following matters namely:-(i) any contract or arrangement for giving to such director any security or indemnity in respect of money lent by him or obligations undertaken by him for the benefit of the Company;

(ii) any contract or arrangement for the giving by the Company of any security as a third party in respect of a debt or obligation of the Company which the director has himself guaranteed or secured in whole or in

(iii) any contract or arrangement by a director to subscribe for shares, debenbures or other securities of the Company issued or as be issued pursuant as any offer or invitation to members or debenture holders of the Company or any class thereof or to the public or any section thereof, or to underwrite any shares, debentures or other securities of the Company;
(iv) any contract or arrangement in which he is interested by virtue of his interest in shares or debentures or other securities of the Company; or by reason of any other interest in or through the Company;

other securines of the Company or by reason of any other interest in or through the Company;

(v) any contract or arrangement concerning any other company (not being a company in which the director owns one per cent. or more of the equity or voting share capital) in which he is interested directly or indirectly whether as an officer, shareholder, creditor or otherwise howsoever;

(vi) any proposal concerning the adoption, modification or operation of a superamnustion final or returnents, death or disability benefit scheme which relates both to director and employees of the Company or of any of its subsidiaries and does not accord to any director as such any privilege or advantage not generally, accorded to the employers to which such scheme or fund relates; and

(vii) any arrangement for the benefit of employees of the Company or of any of its subsidiaries under which the director henefits in a similar manner as the employees and does not accord to any director as such any privilege or advantage out generally accorded to the employees to which the chartes or fund relates.

Where arrangements are under consideration concerning the appointment (including the attrangement or

privilege or advantage out generally accorded to the employees to which such achieuse or fund relates.

(k) Where arrangements are under consideration concerning the appointment (including the arrangement or variation of the terms thereof or the termination thereof) of two or more directors to offices or places of profit with the Company or any other company is which the Company is interested, a separate resolution may be put in relation to each director and in such case each of the directors concerned shall be entitled to vote (and be counted in the quorum) in respect of each resolution except that concerning his own appointment (or the arrangement or variation of the terms thereof or the termination thereof) and except (in the case of an office or place of profit with any such other company as aforesaid) where the other company is a company is which the director owns one per cent. or more of the equity or voting share capital.

(i) If any question shall arise at any meeting of the directors as to the materiality of the interest of a director (other than the chairman of the meeting) or as to the emittlement of any director (other than such chairman) to vote or be dounted in the quorum, such question is not resolved by his voluntarily agreeing to abstain from voting or not be counted in the quorum, such question shall be referred to the chairman of the meeting and his ruling in relation to such other director shall be final and conclusive except to the case where the nature or entent of the interest of the director concerned as known to such director has not been fairly disclosed to the directors. If any question as aforesaid shall arise in respect of the chairman of the meeting such question shall be directors (for which purpose such chairman of the meeting such question shall be directors (for which purpose such chairman shall be counted in the quorum but shall not wore thereon) and such resolution shall be fast and conclusive except to the case where the nature or extent of the interest of such chairman as known to such chairman has not been fairly disclosed to the directors.

(as) The Company may by ordinary resolution asspend or relax the provisions summarised under sub-paragraphs (c)-(l) above inclusive to any extent or ratify any transaction not duly authorised by reason of a contravention of

(n) The directors may procure the establishment and maintenance of or participation in or contribution to any non-contributory or contributory persons or superassipation fund, scheme or arrangement or life assurance achesise or arrangement for the benefit of, and pay, provide for or procure the great of donations, granutics, pensions, allowances, bounded or and pay, provide for or procure the great of donations, granutics, pensions, allowances, to any other or company to the fund doing directors and other officers whether of the Company or of any other company or of the payangraph) who may be or shall have been all any time in the employment or service of the Company or any company, which is a subsidiary of the Company or of the predecessors in business of the Company or of any such subsidiary company or of any allied or associated companies of the Company or of any such subsidiary company or of any such subsidiary company or of any allied or associated companies of the Company or of any such subsidiary on dependence of the great of the company or of any such subsidiary or dependence of the company or of any such subsidiary company or of any allied or associated companies of the Company such subsidiary or dependence of the great or dependence or depende

(a) The office of a director shall be vacated at the next Annual General Meeting following the attainment by such

The directors may exercise all the powers of the Company to borrow money and to mortgage or charge its undertaking, property and uncalled capital and m issue debentures, debenture stock and other necurities whether outright or as collateral security for any debt, liability or obligation of the Company or of any third party. The directors shall restrict the borrowings of the Company and exercise all voting and other rights or powers of control exercisable by the Company in relation to its subsidiary companies an as to ensure that the aggregate amount for the time being remaining undischarged of monies so borrowed or accurate by the Company and its subsidiaries ("the Group") (excluding intra group borrowings) shall not at any time, wishout the previous sanction of the Company as General Meeting exceed as amount equal to twice the aggregate of—

(a) the nominal amount of the capital of the Company for the time being issued and paid up or credited as paid up; (b) the amounts standing to the credit of the consolidated capital and revenue reserves of the Group (including share premium account, capital redemption reserve and profit and loss account) all as shown by the latest audited consolidated behaves sheet of the Group.

Directors' and other interests Following this Offer for Sale the interests of the directors and their families in the issued share capital of the Company (excluding any shares which the directors may purchase under this Offer for Sale), at shown by the register maintained under the provisions of the Companies Act 1957, will be as follows:—

R. H. Commings W. F. Robertson W. W. McB. Brown

457,190 A. Taylor All of the above asterests are beneficial. In addition Dr. H. R. Bichan has a non-beneficial interes shares as a trustee of the Robertson Research Employee Benefits Trust referred to in (d) below.

Following this Offer for Sale SNC will hold 3,510,888 Ordinary Shares representing 28.7 per cent. of the Company's issued share capital. Apart from this holding, the directors are not aware of any other shareholding which, following this Offer for Sale, will represent five per cent. or more of the Company's issued share capital.

The directors of the Company have the following interests in the there capital of Greenwicht-W. F. Robertson W. W. McB. Bro H. R. Bichan J. T. Clarke L. H. J. Cook D. Gaunt 27,500 1,156 2,105 2,105 5,266

Every two warrants entitle the holder to reforribe, prior to 26th April, 1984, for of C1 5.00. Dr. H. R. Bichan is a trustee of the Robertson Research Employee Benefits Trust which was formally established in November 1983 for the benefit of employees and former employees of RRI and the Company and their dependants. Following this Offer for Sale the trustees of the Trust will hold 173,035 Ordinary Shares.

(i) No director of the Company has or has had any interest, direct or indirect, in any assets which, within two years before the date hereof, have been, or are proposed to be, acquired or disposed of by, or lessed to, the Company or any of its subsidiaries. (ii) No contract or arrangement subsists in which a director of the Company is minerially interested and which is significant in relation to the business of the Company and fit subsidiaries, taken as a whole.

(i) Dr. R. H. Cummings has a service contract with the Company dated 14th March, 1984 under which the Company has agreed to employ him as Chief Scientist and Chief Executive Consultant until 22nd September, 1985 and be has agreed to continue to serve the Company as Chalrantan and Director until such date. The contract provides for an initial salary of £50,000 per summ which is subject as review on 1st January, 1985 and each succeeding 1st January during the term of the contract, such salary as he increased with effect from each review date by sock amount (being not less than 5 per cent. per annum) as the directors consider appropriate. Dr. Cummings will retire at the uge of 65 or at an eaclier age with the agreement of the Company op as 31st March, 1986 or after that date at any time he may desire. If he retires before the age of 65, Dr. Cummings will receive payments until he attains that age equal to two-thirds of his highest salary over the five years amound they preceding the date of his retirement and after he attains that age his pennion will be not less than two-thirds of his highest pensionable salary in the five years prior to 22nd September, 1988.

(ii) Dr. W. W. McB. Brown has a service contract with the Company dated 14th March, 1984 under which he has agreed to serve the Company as Chief Executive for an initial term of five years renewable automatically upon the expiry of three years of such initial term for a further three year term from that date and thereafter on a basis which provides that the term of the contract is at no time to us than two years. The provisions for extension of the contract may be terminated by either the Company or the director on not less than 12 months' notice. The contract provides for an initial salary off.44,000 per armum to be reviewed on 1st January, 1985 and each socceding 1st January and to be increased with effect from each review date by such amount as the directors consider appropriate having regard to certain specified criteria including the rate of inflation. Dr. Brown is a member of the Company's pension scheme which provides for a pension on his retirement at the age of 65 of an amount not less than two-thirds of his final pensionable salary.

(iii) Dr. H. R. Bichan has a service contract with the Company dated 14th March, 1984 under which he has agreed to serve the Company as Deputy Chief Executive on terms to all material respects the same as for the Chief Executive set out in sub-paragraph (ii) above save that the period of service is indefinite but terminable by not less than 24 months' notice by either party and that the initial salary is £36,000 per

(iv) Each of Dr. W. F. Robertson and Mr. D. Gaunt has entered ioto a consultancy agreement with the Company dated 14th March, 1984 expiring at the date of the Annual General Meeting of the Company immediately following his attainment of the age of 65 and which he received in annual sum at the rate of 88,000 Dr. Robertson is retained to advise on the financial affairs of the Group and its business development and Mr. Gaunt is retained to advise generally on the development of the Group's business. Both Dr. Robertson and Mr. Gaunt are members of the Company's pension scheme.

Gaunt are members of the Company's pension scheme.

(v) Save as aforesaid there are on existing or proposed service contracts between any of the directors and the Company or any of its subsidiaries which are not determinable by the employing company without payment of compensation (other than statutory compensation) within a period of one year.

(vi) In the year ended 31st March, 1983 the aggregate employments of the directors (excluding pension benefits) amounted to £129,151. The aggregate emoluments is respect of the year ending 3 lat March, 1984 are expected to amount to approximately £150,000 (excluding pension benefits).

4. Purchase and Subscription Agreement

(a) Under an Agreement dated 15th March, 1984 and entered into between SNC, H. R. Bichan, E. B. Wolfenden and C. M. Bate as trustees of the Robertson Research Employee Benefits Trust ("the Trisseen") and the other persons mentioned under (c) below (together "the Vendors") (1), the Company (2), the directors (3) and S. G. Warburg & Co. Ltd. ("Warburgs") (4), Warburgs has agreed, candidonation the admission to the Official List of The Stock Exchange of all the Ordinary Shares of the Company, issued and now being issued, not later than 28th March, 1984, at purchase 1,564,365 Ordinary Shares from the Vendors and to subtletible of procure subscribers for 1,000,009 Ordinary Shares in each case at a price of 156.8p per share and to differ all such shares for sale to the public. The Agreement contains warranties by the directors to relation to the Orong and the accuracy of the information supplied for the purpose of the Office for Sale.

(b) The Company has agreed to bear the whole of the costs, and expenses of and incidental to the Offer for Sale, including those relating to the increase in and the reorganisation of the share capital of the Company for the purposes of the Offer for Sale, the application to The Stock Euchange for listing, the accountancy and legal expenses of the Company, the fees and expenses of the receiving bankers and the registrary, expital derivated the costs of princing, advertising and circulating this and other documents, logester with a let to Warthurge.

Warburgs is no pay at its own expense underwriting commissions of tweer cent. on the Offer for Sale price, after to Grieveson, Grant and Co. and its own legal expenses.

(c) The Vendors and	the Ordinary Shares being sold by them respectively are as follows:—
Vendor	Number of stores Vendor - Number of Maries
SNC	1,284,761 L. B. Brown
The Trustees	- 82,204. R. W. Goldsmith (11,1) - 11,1 (11,1) (11,1) (11,1)
M. T. Halbouty	80,000 P. Ibbotson 4,008
F. R. Halbouty	90,000 R. W. L. Oldroyd 4,800
F. J. Brown	5.000 E. B. Wolfenden 2.000

Name	Date of incorporation	Country of incorporation	share capital	General nata of business
Robertson Research International Limited	13th February, 1970	England	£67,500	Principal operating
				of the Group
Robertson Research	14th December,	Scotland	0013	Compating
Company (incorporated with unlimited liability)	1961			Group hervio
Robertson Research Engineering Services Limited	31st March, 1978	England	£800,000	Wireline logging services and instrumental
Robertson Research (Australia) Pty. Limited	5th March, 1970	Acetralia	A\$1,000	Petroleum an mineral services
Robertson Research Canada Limited	lst March, 1972	Canada	1,960 ordinary shares of no per value	Petroleum an mineral services
Robertson Research (Singapore) Ptc. Limited	15th March, 1974	Singapore	S\$100,000	Petroleum services
Robertson Research U.S.) Inc.	22nd May, 1976	United States	TJS\$1,598	Petasteum an mineral services
Celcan Limited	23rd November,	Canada	100 shares of	Investment holding
				company
White Cloud Minerals Limited	30th November, 1977	Gibrakar	0013	Investment holding company
Robertson Research Pension Trust Company Limited	6th January, 1961	England	. 0013	Pension
The Group's associated company	ies are the following:	÷ Mugirit		1. 4. 17. 1
Name and nature of business	Date and count of incorporation		d share capital coportion held	
ERC Energy Resource Consultants Limited (Petroleum engineering	12th January 196 England	-B-C	Ordinary shares of cent. is held by the trinary shares (not	voting) of £1 ca

(of which 22 per cent, is held by the Group) 8,400 "A." Ordinary shares (non-noting) of Eleach (of which none is held by the Group), 13,120 "B". Ordinary shares (non-voting), of Eleach (of which 19 per cent is held by the Group) and 189,900 Defeated shares of Eleach (of which 12.5 per sent, is held by the Group). 20th February, 1980:

As described in the accountaints' report in Appendix I. Robertson Research has exchanged certain direct and indirect investments in various non-hydrocarbon mineral prospects for nectutities in Crientwich and has acquired further accurates. These securities comprise 2,008, 748 common charge without per value, of which 82,500 are currently subject to resulctions on transfer, and warrants to subscribe for 36,568 common shares prior to 25th April, 1984 at CSLO0 per share. The value of these securities, caldeding those subject to transfer extrictions, based on the closing price on The Torinto Stock Exchange on 9th March, 1984 amounted to approximately CSS, 318,000 (equivalent to approximately 12,870,000 as an extending rate of CS1 253 = £1). The investment in Greenwich, which the Group intends to resain, is tarried at a book amount of £604,000 in the cossolidated accounts of Robertson Research. Greenwich has not declared at paid any dividends since

The Group provides technical and related services to Greenwich. Under a free-year agreement dated 26th October, 1981 Robertson Research is obliged to introduce to a imbadiaty of Greenwich any non-hydrotraphon unineral prospects in certain geographical areas which come to the attention of Robertson Research except where, for reasons of confidentiality or otherwise, Robertson Research is not permitted to do no Dusting the 12. fee income to the Group of £612,794. :

In November 1983 the then directors of the Company gave an undertaking to SNC to use their best codes yours to maintain as least two representatives of SNC acceptable to them as directors for so long as SNC held 20 percent, or more of the issued share capital of the Company and at least one such representative for so long as SNC held 5 per cent, or more of such share capital. In the event of the Board comparing more than 10 members, SNC would be entitled to a proportionately increased number of representatives or such other number as SNC

Under the Purchase and Subscription Agreement referred to in paragraph 4 above SNC has undertaken with Warburgs that it will not before 14th March, 1981 sell, transfer or otherwise dispose of any Ordinary Shares beld by SNC without the prior agreement of Warburgs, such agreement not no be unreasonably withheld.

Following completion of this Offer for Sale the financial guarantees provided by SNC to relation to certain of the Group's borrowings will be released.

8. Material contracts

letters dated 18th February, 1983 from the Company and RRI to the directors of Greenwich conservotable undertakings by the Company and RRI to accept or protons acceptance in respect of shirings as Minex Developments P.L.C. ("Minex") representing 27.7 per cent. of the issued share of Minex to connection with an offer by Greenwich for the whole of such share capital; an Agreement dated 18th March, 1985 between the Weish Development Agency ("WDA") (1). Weish Development Agency (holdings) Limited ("WDA Holdings,") (2). RRES (5), the Company (4) and RRI (5) relating, inter alia, to the sale by WDA Holdings, to RR 181 of 75,000 Ordinary and of Li in RRES for the small of 175,000, the conversion of the 75,000 Ordinary shares of £1 in RRES retained by WDA Holdings into 75,000 Preferred Ordinary shares of £1, the advance by WDA to RRES by way of secured loads of the sum of 1250,000 and the subscription by each of WDA and RRI for 250,000 Cumulative Redectionable Preference shares of £1 to the capital of RRES at par;

\$250,000 and the subscription by each of W shares of L1 to the capital of RRES at par, (iii) an Agreement dated 18th March, 1983 between WDA as purchase WDA Holdings' shareholding in RRES; em WDA Holdings (1) and ERI (2) setting out the rights of ERI

(iv) a letter dated 12th April, 1963 to the Company from Walwan Scodgell Coolhran Musersy Emitted addressed to Greenwich to connection with the offer by Greenwich for the whole of the instead share capital of Miner incorporating a form of acceptance and agreensent signed by Greenwich. Vant Limited and the Company, under which such companies jointly and severally agreed to indemnify Walwan Stodgell Cochran Murray Limited against any highlity arising by reason of inter alia, any mis-entensent consisted in a prospection of Greenwich dated 12th April, 1963 relating in a public offering by Greenwich of units consisting of common shares and warrants: two Agreements dated 23rd November, 1983 between SNC (1) and the Company (2) relating to the consistion by the Company from SNC of 538 shares in Robertson Research (U.S.) Inc. and 960 ordinary shares in Robertson Research Consists Limited respectively for: an aggregate consideration of £227,250 satisfied by the issue, credited as fully paid, of 225,000 Ordinary shares of 5p each in the Company.

an Agreement dated 12th March, 1984 between the Company (1), ERI (2), WDA (3) and WDA Holdings (4 under which RRI, conditional upon the admission of the Ordinary Share capital of the Company, issued as now being issued, to the Official List, agreed to purchase at the direction of the Company the 75,000 Preferro Ordinary shares of £1 in RRES owned by WDA Holdings and the 250,000 Communitive Redeemahl Preference shares of £1 in RRES owned by WDA in consideration of the issue by the Company to WDA credited as fully paid, of 65,000 Ordinary Shares as 25 the date hereof.

(vii) a Deed dated 14th March, 1964 between the Company (1), SNC (2) and the Governor and Company of Bank of Scotland (3) under which the Company has agreed, pending the repayment by it of an estimating credit facility from Royal Bank of Canada, London, to indemnify SNC against any liability arising out of SNC's guarantee of the obligations of the Company relating to such facility and Bank of Scotland has agreed to indemnify SNC against any liability to respect of its guarantees of ortake obligations of Robertson Research (U.S.) Inc. and Robertson Research Canada Limited pending the substitution of Bank of Scotland as the guarantee thereof; and

(viii), the Purchase and Subscription Agreement referred to in paragraph 4 above.

The directors have been advised by Ernst & Whitmey and Aston, Parkinson & Gadd that the Company is not a close company within the message of the Locome and Corporation Taxes Act 1970.

Clearence has been received under Section 464 of the Income and Corporation Taxes Act 1970 in respect of the capitalization issue of the Company and certain other matters referred to in puragraph i (b) above and this Offer for Sale.

The directors have been advised by Ernst & Whitney and Asson, Parkinson & Good that no material liability for capital transfer tax is likely to fall upon the Company or any of its subsidiaries.

Neither the Company nor any of its subsidiaries is engaged in any linguistic or arbitration on portance nor, so far as the directors are aware, it there my linguist or chains of material pending or threatened against the Company or any of its subsidiaries.

Ernst & Whitney and Aston, Parkinson & Gadd have given and have not withdrawn their written contents to the issue of this Offer for Sale with the lociusion herein of their joint report, their joint letter concerning the profit forecast and the references thereto and to their advice on totation referred to in paragraphs 9(a) and 9(c) above and their names in the form and content in which each is respectively included.

Warburgs has given and has not withdrawn its written consent to the issue of this Offer for Sale wish the inclusion herein of its letter concerning the profit forecast and the references thereto said its name in the form and content in which each is respectively included.

The expenses of this Offer for Sale including capital duty, professional fees, printing costs and the application for grant of listing are a estimated to amount to approximately £500,080 (excluding value added text) and are payable by the Company.

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WORLD STOCK MARKETS

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OVER-THE-COUNTER Nasdaq National Market closing prices

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THE WEEK IN THE COURTS

Postponing the privacy question

EVERYBODY recognises that interfocutory injunctions. One reveal the identity of the phone privacy and the need to main- any article based on the contain this freedom.

The Court of Appeal's decision last week in Froncome ord mapers Lid and Others; bitlustrates aspects of that con-flict. But anyone who considers and comments on that decision must resist staunchly the temptation to read too much

It was a decision about interlocutory injunctions, about the appropriate orders to make in litigation between the parties so as to preserve their rights until the hearing of the triat. As has been said by Lord Diplock in American Cyanomid Co r Elhi-con Lid (*). "it is no part of the court's function at this stage of the titigation . . . to decide difficult questions of taw which call for detailed argument and mature consideration."

Mr and Mrs Francome have proprietors of the Daily Mirror. its editor and two reporters claiming damages for trespass and breach of confidence. Over three months or more, 38 tapes spanning 20 hours were ob-tained by hugging telephone calls made to or from Mr Francome's home in Berkshire. Whoever made the tapes offered them to the Doity Mirror, Mr Francome became aware of the apes as a result of an approach newspaper reporters secking to confirm their authen-

tapes are alleged to trial of the action." reveal breaches by Mr Fran-come of the rules of horse

tents of the telephone conversations recorded in the tapes.

The Court of Appeal dis-Another v Mirror Group News charged the first injunction. As a result, the name or names of the supplier or suppliers of the lapes remain, for now, secrel, as does the identity of the phone tapper.

The Court of Appeal upheld The Court of Appeat upheld in essence the second injunction. The Daily Mirror cannot, for now, publish any article containing any details of the tape-recorded (clephone conversations, With permission from the appropriate minister, the Mirror can make available to the police or the Jorkey Club. the police or the Jockey Club in them. The newspaper can also rely on the tapes as evi-dence in support of any ptea of justification for any other prima facie defamatory state-ments it might wish to publish ahout Mr Francome.

Superficially, the Court of Appeal's decision might seem to support a newspaper's right to withhold the identity of its sources of information and an individual's right to protect the privacy of his telephone con-

Mr Justice Park ordered two 10 an order that the Mirror able aim:

injunction about disclosure of the identity remained in force, any argument at the trial that Mr and Mrs Francome were not entitled to such an order would

be "wholly academic." The issue of a newspaper's immunity from disclosure of its sources of information stitt remains open to legal argument at the trial; and in the tight

this issue is uopredictable. Likewise, the interlocutory Injunction which remains in force for now, does not prevent important issues being raised, argued and decided at the trial about the legality of any use by the Mirror of the tapes or their

tn his erudite judgment in Molone v Commissioner of Police of the Metropolis (No 2) ping is a subject which cries out for legislation."

Article 8 of the European Convention on Human Rights 1950 provides that "everyone

"determine the final rights of the parties," out its duty was "to make such orders, if any, as were appropriate pending the as were appropriate pending the code. Is it too much to hope that the combined talents of the AC 396, \$1981 1 All ER 452. Sir John said that even if Law Commission and the ex1979 2 All ER 620, †† 1968 I Mr and Mrs Francome were Parliamentary Counsel Office OB 396. ultimately held to be entitled will soon achieve this commend-

privacy must be protected. required the newspaper to Everybody believes in freedom of the press. But there remain areas of perpetual conflict between the need to protect the newspaper from publishing purises and the need to protect the newspaper from publishing pusting above displacement. Sin Robert said in the course of his judgment in the Malone tapes, they would not be case that English law conferred substantially prejudiced if they need to protect the newspaper from publishing Justice Park's interlocutory to of privacy to hold a telephone conversation in one's home without molestation.

The trial in the Francome case witt reveat whether the categories of confidentiality in English law are closed or will be extended.

It wilt also test the extent of the dictum that "there is no confidence as 10 the disclosure of iniquity", a dictum which at the trial; and in the tight of the speeches of the majority | Lord Denning has said in | Irilio| Services | Lid. | v | of the taw tords in | BSC | r | Pullerill (††) | extends "10 any | Granodo | Television (†1), the trial court's likely decision on that it ought in the public interest to be disclosed to others".

> According to Sir John Donaldson, it was impossible 10 bonaldson, it was impossine to see what public interest could be served by publishing the contents of the tapes in the Daily Mirror before the trial which could not equalty be served by giving them to the police or to the Jockey Club.

It has been recognised that Vice-Chancettor of the Chancery Division of the High
Court, sald that "telephone tapJohn's remark mean that there are categories of information flow freely to such organisations as the police or the Jockey Club but may not be reveated to the public through the media? How But, as Sir John Donaldson, private and family life, his the Master of the Rolts, stressed home and his correspondence. To what extent do these

Justinian

Accountants set up expert witness team for disputes

BY RAYMOND HUGHES

TOUCHE ROSS, the City by setting up a multi-discipline accountancy is offering a new team drawn from the various such matters as a claim for profession, the public sector, service—forensic accountancy, areas of the firm's activities.

This might be defined as accountancy in the service of the law, about 15 and lnclude two about 15 and lnclude two appropriates from the audit dist.

Accountancy involvement in insurance industry, the legal such matters as a claim for profession, the public sector, and companies with their own insurance departments.

It envisages its team's members being called in as

members being called in as Accountants have long found partners from the audit dividences involved in litigation as expert witnesses or advisers; what Touche Ross has done is to formalise the position

Accountants have long found partners from the audit dividences calls for specialist skills that can best be provided with a members being called in as expert witnesses in court cases and as advisers in discussions.

The firm says that its service is designed specifically for the go to court.

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Robertson Research plc

- The documents attached to the copies of this Offer for Sale deli registration were the written outstats referred to in sub-paragraphs (b) and (c) above, the statement of Errist & Whitney and Asion, Parkinson & Godd setting out the adjustments made in arriving at the figures contained in their goan report jack out between the reasons therefor, copies of the application forms and copies of the material contracts referred to in paragraph 8 above.
- (f) The minimum amount which, in the opinion of the directors, is to be raised by the issue of the new shares included in this Offer for Sale in respect of any of the matters mentioned in paragraph 4 of Part I in the Fourth Schedule to the Campaines Act 1948 is £600,000 in respect of working Capital.
- (g) Sat e as disclosed herein there has been no material change in the trading or financial position of the Group since 30th September, 1983 other than in the ordinary course of business.
- The financial information concerning the Company and its subsidiaries contained in this Offer for Sale does not amount to full individual accounts within the meaning of Section 11 of the Companes Act 1981. Full undividual accounts relating to each financial period of the Company and each of its subsidiaries incorporated in the an Bustin to which the financial information relates (for the periods reiding at or prior to 31st March, 1981) have been delivered to the Registrar of Companies. The relevant suditions have made a report under Section 14 of the Companies Act 1987 in respect of each such set of accounts and each such report was an unqualified report within the meaning of Section 43 of the Companies Act 1980.
- (i) S. G. Wathure & Co. Ltd. is registered in England no. 292689 and its registered office is at 30 Gresham Street, London EC.P (SEB.)

11. Documents available for inspection

The Purchase and Subscription Agreement referred to in paragraph 4 sbove, together with the letter of disclosure referred to therein, and copies of the following documents may be unspected at the offices of McKeuna & Co., Interesk Henne, I Atherech, Lendon Week ### Business boors on any weekday (Saturdays and public holidays excepted) up to and including 29th March, 1984:----(a) the Memoranduro and Articles of Association of the Company;

- the audited consolidated accounts of the Company for the two financial years ended 31st March, 1983 and for the arc mounts ended 30th September, 1985,
- (c) the accountants' report set out in Appendix I and the statement of adjustments relating thereto, (d) the letters set out in Appendix II;
- (e) the service contracts and consultancy agreements referred to in paragraph 3 above;
- (f) the material contracts referred to in paragraph 8 above; (g) the letters referred to in paragraphs P(a) and (c) above, and
- (h) the written consents referred to in paragraphs 10(b) and (c) above.

Dated 15th March, 1984.

Copies of this Offer for Sale with Application Forms may be obtained from:---

S. G. Warburg & Co. Ltd., 30 Gresham Street. London EC2P 2EB.

Grieveson, Grant and Co., Bank of Scotland, Leith House, 45-57 Gresham Street, London EC2V 7EH.

3rd Floor, 55 Old Broad Street, London EC2P 2HL. and ·

Bank of Scotland, Registrar Dept., 26a Ynrk Place, Edinburgh EH! SEY.

and at the following branches of Bank of Scotland:-

16/18 Piccadilly. London WIV O.VH

19/21 Spring Gardens, Manchester M2 IEB

Aberdeen: 53 Castle Street. Aberdeen AB9 8AJ

Birmingham: P.O. Box No. 208 Birmingham B3 3AU 29 Corn Street, Bristol BS99 7JG

and at the Company's head office:--Robertson Research plc, Ty'n-y-Coed, Llanrhos, Llandudno,

Gwynedd. LL30 ISA. S. G. Warburg & Co. Ltd. at their discretion.

The Offer for Sale and the acceptance of applications is conditional on the whole of the Ordinary Share capital of the Company, issued and now being issued, being admitted to the Official List of The Stock Exchange not later than 28th March, 1984. Moneys collected in respect of applications will be returned if such condition is not satisfied and, in the meantime, will be retained by Bank of Scotland in a separate account. If any application is not accepted, or is accepted for fewer shares than the number applied for, the application Glasgow: 110 St. Vincent Street, Glasgow G2 5EJ moneys or the balance of the amount paid on application (as the case may be) will be returned by cheque through the post, in all cases without interest, at the risk of the applicant(s) concerned.

Procedure for application

Requirements for application

multiples of 5,000 shares thereafter.

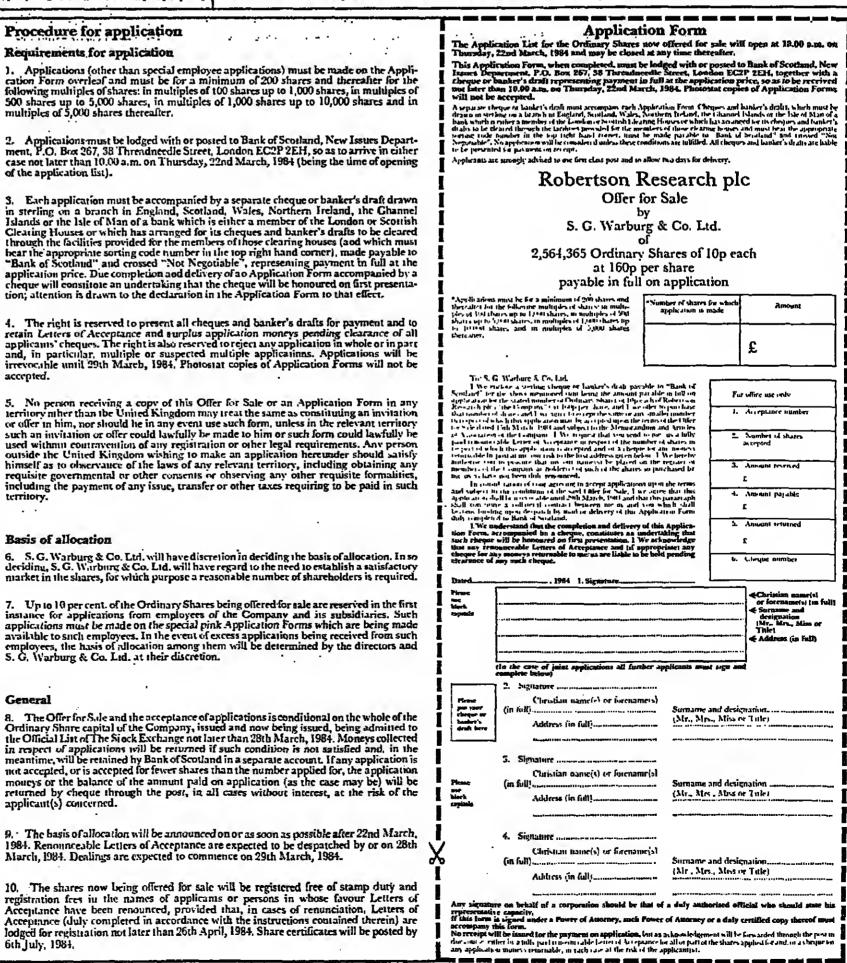
of the application list).

Basis of allocation

General

9. The basis of allocation will be announced on or as soon as possible after 22nd March, 1984. Renounceable Letters of Acceptance are expected to be despatched by or on 28th March, 1984. Dealings are expected to commence on 29th March, 1984.

10. The shares now being offered for sale will be registered free of stamp duty and registration free in the names of applicants or persons in whose favour Letters of Acceptance have been renounced, provided that, in cases of renunciation, Letters of Acceptance (duly completed in accordance with the instructions contained therein) are lodged for registration not later than 26th April, 1984. Share certificates will be posted by



23 Spear - making conferences

perhaps (5)
24 She could be attached to

race (9) 26 Land of Hope and Glory to

the publishers? (9)
27 Come up — injunction

tonight, we hear (5)
28 Monetary unit as state-tender? (3)
29 Violent sequel to a curtain-

DOWN

lecture? (6-5)

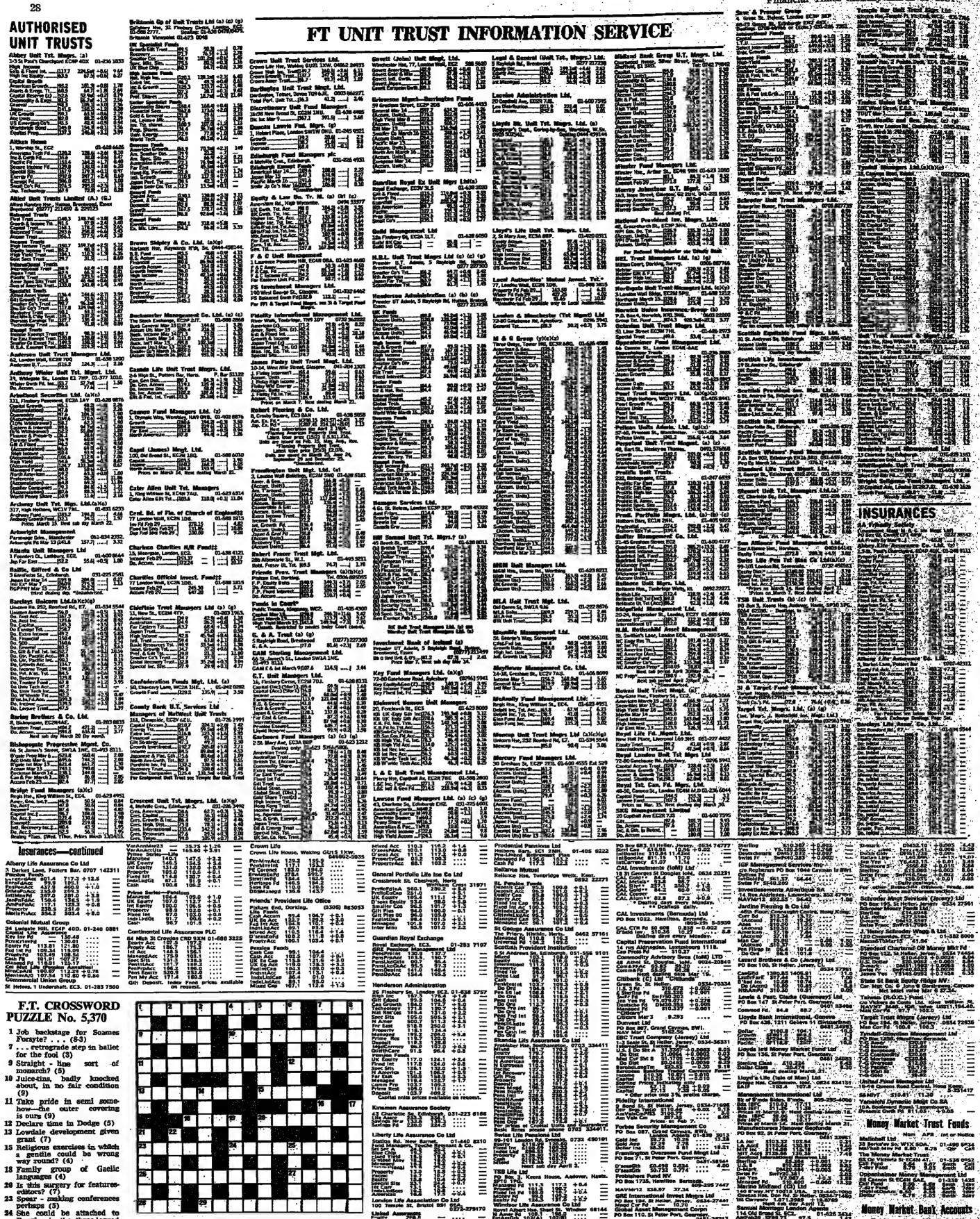
reserve? (3-5)

Douglas in the three-legged

Money Market Bank Accounts

Continued on Page 28

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25 Where harbour - assistants of Holdenburst Rd. Boursemouth.

17 Joiner in trail, climbing (8)

20 Bird bitter in some measure

remove freight initially (5)

Saturday

-fuss follows (7)

21 Spring and things? (6)

one in high, lonely place (5) 19 Wild lion-man is theoretical

6 Lost again, suffering-from 22 The buck stops here! (6)

3 Rochester's girl embraces

4 Car-model given raised edges and cut to shape (7)

5 Splendour of joke in spring-

7 Slice of Sunday meat (6)

8 Topers can be fast in bars

1 Standard means of churning cheese (8)
2 eg Olive on the pitch—slick
16 Mystifying means of getting with names of winners next

time (7)

this? (9)

striker out (8)

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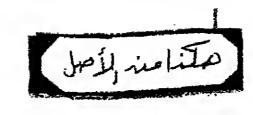
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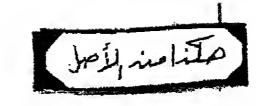
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il Times Monday May

31 Financial Times Monday March 19 1984 | NOUSTRIALS—Continued | FROPERTY—Continued | INVESTMENT INDUSTRIALS—Continued INVESTMENT TRUSTS-Cont. PROPERTY—Continued OIL AND GAS—Continued LEISURE—Continued Proce II Het Car Gra PAC EQUITIES & BONDS London EC1Y 4TQ Telephone: 01 588 4872 Telox: 883336 ICHILD MINES—continued Stack Price of Net Christian PAGE Stock

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June Utd, Newspapers | 227 | 14.11 | 13.0 | 1.6 | 5.7 | 0.37 | Feb. |
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June Utd, Newspapers | 227 | 14.11 | 13.0 | 1.6 | 5.7 | 0.37 | Feb. |
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June Utd, Newspapers | 227 | 14.11 | 13.0 | 1.6 | 5.7 | 0.37 | Feb. |
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June Utd, Newspapers | 227 | 14.11 | 13.0 | 1.6 | 5.7 | 0.37 | 14.11 | 13.0 | 1.6 | 5.7 | 0.37 | 14.11 | 13.0 | 1.6 | 5.7 | 0.37 | 14.11 | 13.0 | 1.6 | 5.7 | 0.37 | 14.11 | 13.0 | 1.6 | 1.5 | 14.11 | 14.11 | 14.11 | 14.11 | 14.11 | 14.11 | 14.11 | 14.11 | 14.11 | 14.11 | 14.11 | 14.11 | 14.11 | 14.11 | 14.11 | 1 Miscellaneous May Augitionessile Hums 31 ...
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THREE-MONTH EURODOLLAR

Dollar firm but nervous

BY COLIN MILLHAM

The dollar finished the week lished on Tuesday, and showed 6 was 8 major factor behind the on a firm note, although doubts surprising fall of 0.2 per cent, dollar's recovery, and this did not appear to change even when the health of the U.S. economy increase of 0.75 per cent. The weekly MI money supply fall the weekl the health of the U.S. economy and it remains an open question as to whether the U.S. currency can sustain its latest gains. The foreign exchanges were often confused and nervons, with European dealers tending te feel that the dollar should be pushed lower on economic fundameotals only to find New Yerk traders more impressed by interest rates and hopes ef e lower budget deficit, leading to sudden deficit can be reduced. This followed agreement between the Reagen Administration and Republican leaders in Congress for a three-deficit, leading to sudden deficit can be reduced. This followed agreement between the Reagen Administration and Republican leaders in Congress for a three-deficit, leading to sudden deficit can be reduced. This followed agreement between the Reagen Administration and Republican leaders in Congress for a three-deficit can be reduced. This followed agreement between the Reagen Administration and Republican leaders in Congress for a three-deficit can be reduced. This followed agreement between the Reagen Administration and Republican leaders in Congress for a three-deficit can be reduced. This followed agreement between the Reagen Administration and Republican leaders in Congress for a three-deficit can be reduced. This followed agreement between the Reagen Administration and Republican leaders in Congress for a three-deficit can be reduced. This followed agreement between the Reagen Administration and Republican leaders in Congress for a three-deficit can be reduced. This followed agreement between the Reagen Administration and Republican leaders in Congress for a three-deficit can be reduced. This followed agreement between the Reagen Administration and Republican leaders in Congress for a three-deficit can be reduced. This followed agreement between the Reagen Administration and Republican leaders in Congr

Figures indicating the pace of U.S. economic growth did nothing te clarify the position. Retail sales for February were pebages for February were pebages.

EMS EURO	PEAN (URRENC	דואט צ:	RATES	
	RCU contral rates	Gurrency amounts against ECU March 16	% change from contral rate	% change adjusted for divergence	Divergence
Seleian Franc	44.9008	46.7445	+1.68	+1.81	±1.5447
Oanish Krons	8.14104	8.16812	+0.32	+0.26	±1.6425
German e-Mark	2.24164	2.23324	-0.38	-0.45	± 1.0542
French Fmne	3.87456	3.88839	+0.20	+e.13	<u>+-</u> 1.4052
Eutch Guilder	2.62595	2.51985	-0.24	-0.31	±1.4964
Irlah Punt	e.72569	e.729636	+0.53	+0.46	± 1.6899
Italian Lira	1403.49	1385.62	-1.20	-1.20	<u>+</u> 4.1505

THE POUND SPOT AND FORWARD

March 16	Day'e spread	Close	One month	% p.a.	Three months	7. p.a.
U.S.	1.4430-1.4550	1.4465-1.4475	0.18-0,23c dis	-1,70	e.60-0.65dis	~1.73
Canada	1.8350-1.8480	1.8365-1.8375	0.15-0.28c dis	- 1.50	0.70-0.80dis	~1.63
Nethind.	4-26-4.30	4.28 -4.294	12-20 pm	2.80	27,-23, pm	2.45
8elgium	77.30-77.80	77.65-77.75	32-42c dis	- 5.71	82-82 dis	-4.48
Danmark	16.80-13.90	13.87 - 13.88 -	3-37aore dis	-29.7	8-9 dis	-2.45
Ireland	1,2330-1,2430	1.2385-1.2395	0.36-0.44p dis	-8.67	1.19-1.33dis	~4.05
W. Ger.	3.77-3.80-2	9.794-3.804	13-bbf pm	8.13	3-21, pm	2.90
Portugel	189.50-191.50	190.50-191.00	190-45c dia		630-7250ds	-19.71
8pein	217.75-218.75	218.20-218.40	150-180c dis	3.07	450-606 dis	~8.75
Haly	2347-2358	2352-2354	154-1741m dis	-6.29	48 ⁷ 2-50 ² 2dis	-8.41
Norway	10.88-10.94	10.9112-10.9212	472 Store dis	-5.26	12-13 die	4.5B
Fmnce	11.65-11.72	11.684-11.694	5-7e dre	-8.41	194-214 dis	-7.10
Sweden	11.27-11.26	11.24-11.25	12-24 ore dis	-2.07	5-54 dis	~1.29
Japan	3257-3287-	3262-327	0.64-0.56y pm		1-97-1.86 pm	2.34
Ausaris	26.55-26.75	26.70-26.75	7-51-gro pm		161-12% pm	2.13
Switz.	3.10-2-3.13-2	3.111-3.124	1½-1½c pm		4-31 pm	5.18
B	elgian mta la :	or convertible	rencs, Financia	I franc 8	0.05-80.15.	

Mar. 18	£	8		£ Note Rates
Agentina Peso	44.46 44.55	50,70-30,73	Austrie	26,50-66,80
Australia Dollar.	1.5000-1.5096	1.0380-1.6885	Beigis m	79,60-80,40
Srazil Cruzeiro.,,	1,823.5-1,833.6	1,231-1,237	Danmark	
Finland Marka	8.1585 8.1985	6.6575-5.6626	France	11,61-11,76
Greek Brachma.	149,60-150,00	103.96-103.55	Germany	6.7612-3.801e
Hone Kone Dollar	11.2712-11.2812	7.7950-7.7980	Italy	2530-2360
ran Rial	165.00*		Japan	625-330
KuwaitDinar(KD)	0.4625-0.4235	0.29230-0.29245	Nettierlyn 10	4.25-4.26
Luxembourg Fr.	77.66-77.76	63,70-63,76	NOTWAY	10.85-10.96
Malaysia Dollar_	8.8076-3.3176	6.2870-2.2900	Portugal	186-196
New Zealand Dir.	9.1600-6.1650	1.4940-1.4965	Spain	81114-22112
Saedl Arab. Rival	5.0750-5.0805	6.6100-3.6110	Sweden	11.19-11.30
Singapore Dollar	3.0150-3.0250	2,0860-2,0890	Switzerland	3.1012-3.1314
th African Rand	1.7625-1.7665	1.2180.1.2210	United States	1.4319-1.4519
U.A.E. Dirham	5.3095-C.3150	3.5780-3.6730	Yaqoslavia	183-192

EXCHANGE (ROSS RA	TES								
Mar. 16	Pound St'rfing	u.s. Dollar	Detisohe m'k	JapaneseYen,	FrenchFranc	Swice Franc	Dutch Guld	Italian Lira	Canada Dollai	Belgian Fran
Pound Sterling U.S. Dollar	0.891	1.447	3.798 2.693	396.8 225.7	11,698 8,083	6,118 2,153	4,288 8,963	6355. 1687.	1,837 1,270	77.70 58.71
Deutschemark	0,263	0,381	11,68	86.04	3_e79	0.621	1.126	619.6	0.484	20.46
Japanese Yen 1,000	3,060	4,488		1000,	35,78	8.541	13.18	72 e 1.	5.686	237.8
French Franc 16	6,856	1,238	3,248	27e,5	1e.	8.666	3,667	2012.	1,571	66,45
Swiss Franc	0,381	0,464	1,318	104.8	3,761	2.	1,575	754.8	0,589	84,86
Dutch Galider	0,283	0,337	0,886	76,91	2,727	0.727	1,928	548,8	6,428	18.18
Stalian Lira 1 000	0,425	0,616	1,614	138,8	4,968	1,385		1000	0,781	35.02
Canadian Dollar	0.544	0,788	8.067	177.9	6,366	1,897	2,334	1261,	8.364	42.50
Balgian France 100	1,287	1,866	4.897	480.5	16,05	4,012	6,518	3088.		100.

Mar.16	Sterling	U.S. Dollar	Canadian Dollar	Outot: Gulider	Swise Franc	D-mark	French Franc	ltakan Lira	Conv.	Fin.	Yen	Danish Kroner
Short term	868-854 856-854 816-813 816-878 878-8	87e-101e 97e-101e 10-1014 1014-1019 1014-1018 11-1114	812-16 854-10 812-10-15 10-15-10-16 10-15-10-16 10-15-11-15	514 558 618 614 618 614 818 614 613 616 612 658	6-214 8-81 ₈ 3-6-3-6 3-6-3-6 3-4-3-7 ₆ 4-16-4-8	514-518 512-518 618-568 618-518 514-518 616-618	121 ₂ ·163 ₄ 186 ₈ ·127 ₈ 143 ₆ ·145 ₈ 153 ₄ ·16 157 ₈ ·151 ₈ 167 ₆ ·161 ₈	1654-1654 1614-1714 1612-17 1678-1735 1714-1754 1754-1814	161g-18 13-141g 1614-1354 16-161g 181g-13 1214-1814	1112-16 1154-12 1154-12 1154-12 1154-18 1154-18	5%-5% 6%-6% 6%-6% 5%-6% 8%-6%	1036-1076 11-1112 1076-1136 2076-2238 1076-1136 1114-1154

MONEY MARKETS

London rates contrast with New York

of England cut its dealing rates on Wednesday, giving the major banks the opportunity for another cut in base rates. Of the hig four banks only National Westminster, Midland and Lleyds reduced their rates by † per cent to 8† per cent, while Barclsys remained on the rate set the previous week by that bank previous week by that hank alone at \$1 per cent.

The cut to 3½ per cent had been expected fer some time, but the impetus built up when the City and overseas investers City and overseas investers reacted favourably to Tuesday's Budget. On Wednesday morning supplies of the 10 per cent Exchequer 1989 tap stock were soon exhausted, and this was fellowed in the next hour or so by another ‡ per cent reduction in Bank of England money market interventien rates. ket interventien rates.

After the full in base rates gilts became rather nervous, but then picked up later in the week, while strong demand for equities took the Financial Times Indus-

FT LONDON INTERBANK FIXING

LONDON INTERBANK FIXING

(12,00 a.m. March 6 months	18) U.S. dollars
bid 10 b/12	Offer 10 7/16
6 months	U.S. dollara
bid 105/8	offer 10 3/4

The banks ere National Bank, Bank of Takyo,

rate 8½-3½ per cent
(since March 15 and 16)
London mency market interest rates stabilised towards the snd of last week, after moving down another notch when the Bank of England cut its dealing rates on Wednesday, giving the major banks the opportunity for another cut in base rates. Of the hig four banks only Natienal Westminster, Midland and Llayds

trial Ordinary index to record "that inflationary pressure has enlevels. Despite the strength off icouraged the Fed to edopt a
london's financial markets on Shighter monetary stance. It was friday the authorities did not into thought likely that the authorities are shigh as the stabilised towards the sum of the situation firities wished te keep the Federal of the situation firities wished the keep the Federal of the situation firities wished the keep the Federal of the situation firities wished the keep the Federal of the situation firities wished the keep the Federal of t

MONEY RATES Frankfurt ; 1676-1774 12 114-1176 1674-1276 1774-1776 1154-19 1289-1254 1874-178 1154-19 1874-135 6,28185

Lombard		8.5	1250-11	=	67g	_	! =	1134	19 / 19	27g-181g
LONDON	MONEY	RATE	S	DI	scount	Houses	Depos	it and	8111 1	Rates
Mar. 16 1984	Sterling CertiScate of deposit	interbank	Local Authority deposits	Company Reposits	Market Deposits	Treasury (Buy)	Treasery (Seil)	Eligible Sank (Buy)	Eligible Bank (Self)	Fina Trade (Buy)
Overnight 6 days notice 7 days tr 7 day notice	=	8-10 85-84	854 854 814	876 - 876	75g-6 	Ξ	Ξ	=	=	=

	Local Auth. negotiable bonds	Local Authority Deposits	Finance House Deposits	F Cert of Deposits	SDR Linked Deposits	ECU Linked Deposits
One months Two months Three months Six months Nine months One year	914-878 814-878 913-616 886-9	111111	8/3 8/6 e 81s	8.65-18.05 10.05-10.15 10.15-10.25- 10.6-10.6 10.6-11.0	814-91g 64g-95g	911-918 911-918 654-913 611-1049
Two years Three years Feur years Five years	=	978 1618-978 1619-1618 1012-1014	=	=		=

	Five years 1012-1014
	ECGD Fixed Rate Export Finance Scheme IV Average Rate for interest period February 8 to March 9 1984 (inclusive): 9.373 per cent, Local sethorities
•	and finance houses seven days' notice, others seven days' fixed. Finance
,	Houses Sase Rates (published by the Finance Houses Association): 512 per cent
•	from March 1 1984, London and Scottish Clearing Bank Rates for landing
	81-81 por cent. London Deposit Rate for sems et seven deve' nedes 51-61 per
1	cent. Treesury Sills: Average tender retes of discount 6.3498 per cent.
1	Cartificates of Tax Deposit (Series 6). Deposits of £100,000 and gver held ander
ı	gne month 9 per cent one-three months 9 per cent; three-six months 94 per
	cant: eix-12 months 94 per cent. Under £100.000 84 per cent from Merch 15.
	Deposits held ended Series 4-5 Ste per cent. The rete for all deposits withdrawn
	fer cosh 7 per cent.

MONEY RATES	
NEW YORK (4 pm)	
Prime mts	11
Broker loss mie	10%
Fed lunds at interventien	
Treasury Bills	
Ene month	9.25

Six menth	9.65 9.71
Treasury Bonds	
Two year	983 ⁷⁷
Seven year	9711

on balance from a week earlier, as the reduction in London interest rates was balanced by LONDON interest rates was balanced by favourable reaction to Tuesday's Budget. The trade-weighted index rose to 80.9 from 80.8 as the pound fell to \$1.4440 from \$1.4605, but rose to DM 3.7975 from DM 3.77, amid suggestions that foreign demand for gilts and UK equities should sustain demand for sterling. Glose High June 89.27 89.37 Sept 88.52 88.89 Dec 88.62 88.65 March 88.37 88.38 June 88.10 88.10 Volume 3.897 (3.079) Previous day'e open int. 12,763 (12,720)

for the rise of ove the impor- was bope that	ž in New York lates	st
lget deficit can followed agree-	March 16	Prev. c
the Reagen ad Republican is for a three- cutting and	Spot \$1,4465-4476 1 month 0.21-0.23 dia 3 manthe 0.63-0.67 dis 16 months 6.00-3.05 dia	S 1.4565 0.16-0.20 0.64-0.66 6.05-3.10
ckage.	E forward mites ere qu	n beson

FORWARD	RATES	AGAII	NST S		
Toller -Mark -rench Franc -wie Fmnc	1.4470 3.7975 11.6925 3.1176	1 month 1.4491 8.7866 11.7553 3.1022 328.15	2 month 1,4533 3,7696 11,8925 3,0779 324,86	6 month 1.4806 3.7424 12.0907 6.0434 322.92	12 month 1.4775 3.7013 12.4540 2.9811 318.51
		_	ي	ف سعب تفک	_

					_	
BANK OF ENGLAND TREASURY BILL TENDER						
	March 16	March 6	L	March 16	March 9	
Bills on offer Total of applications, Total allocated	£587m	£100m £464 m £100m	Top Accepted rate of discount. Average rate of discount	8,34983	8,5053% 8,4709%	
Minimum accepted bld ,	£97,916	£97.88	Amount on offer	8.63%	8.06% £100m	

THE DOLLAR SPOT AND FORWARD

	Day's			%	Three	*
March 15	spread	Close	One month	p.s.	months	p.a
ÚK†	1.4430-1.4650	1.4465-1.4475	0.18-0.23c dis		e.60-0.65dis	
Irelandt	1.1635-1.1775	1.1636-1.7645	6.23-0.20c pm		e.75-0.67 pm	
Canada	1.2692-1.2713	1.2695-1.2700	0.04-0.01c pm	e.24	e.06-0.02 pm	
Nothind.	2.9400-2.9650	2,9615-2,9635	1.15-1.06c pro	4.47	3.13-3.03 pm	
Balgium	53,25-53,80	53.70-53.72	14-16c dis	-6.35	33-38 dis	-2.6
Denmark	9.5275-9.6000	8.5925-9.5975	.10ore pm40dls	-0.18	0.50 pm-par	0.1
W. Ger.	2,5965-2,6300	2,6220-2,6230	1.15-1.10pf pm	3.18	3.08-3.03 pm	4.6
Portugal	131,25-132,75	131.75-132.50	115-296c dis	-18.17	380-800dis ·	-17.8
Spain	150.10-151.70	160.80-150.96	80-95c dis	-e.96	240-290 dis	-5,6
tuly	16181-1628	1626-1627	\$3-94lire dis	~ 8.65	26-27 dis	-8.6
Norway	7.5200-7.5660	7,5450-7,5500	2.05-2.55org dia	-6.68	3.40-5.90dts	-2.9
Fmnce	8.0075-8.1075	8.0600-8.0650	2.80-3.30c dis	-4.52	10-11 dis	-5.1
Swaden	7.7450-7.7900	7.7700-7.7750	.15oreom35dis		per-0.50 dis	-0.13
jepan	224.04-226.20	225.65-225.76	0.76-0.72y pm		2.28-2.23 pm	4.0
Austria	18.32-18.49	18,42-18.44	7.40-6.80gro pm		19-17 pm	3.9
Switz.	2.1445-2.1625	2.1526-2.1536	1.39-1.34c pm		3.68-3.63 pm	
		re geoted in t			premiume at	
diago	inte anchi to	the II 6 delle	r and not to the			

Belgien mte is for convertible In	ancs. Financial Irano 55.30-55.40.	
CURRENCYMOVEMENTS	CURRENCY RATES	

CURRENCYMOVEMENTS			CURRE	VCY	RATE	5
Mar. 18	Bank of England Index	Morgan Guaranty Changes%	March 16	7ate	Rights 0,732463	Currency Unit
	126.7 89.2 117.0 90.4 79.5 127.2 148.8 115.6 66.8 48.7 138.1		U.S. S.— CanadianS.— Austria Sch.— Beigian Fr.— D'mark —— Franch Fr.— Lira —— Yan —— Norwan Kr.— Spanish Pia. Swediah Kr.— Swediah Kr.— Burish Fr.— Greek Dy'ch	10.60 414 11 7 4 6 612 16 8 8	1.06237 18.5066 56.8183 10.1586 2,76991 3,13195 8,56278 1762.96 638.600 7,9810 8,23067 8,20527 109,349	0.851736 1.08276 13.6974 45.7446 8.16816 2.23334 8.61985 6.8685 1588.66 166.636 6.41994 128.271 6.61965 1.83776 87.7862
1980-1982=100. Bar	k of Engl	and index	PCS/EOR roto	to- M	larch 15: u	navailable

,	March 16			Carrency Unit
8	Sterling U.S. S CanadianS	818	0.732463 1.06237	0.539435 0.851736 1.08276
	Austria Sch Belgian Fr Danish Kr	11	19.5056 56,8183 10.1386	18.6974 45.7446 8.16816
	D'mark	6	2,76991 3,13193 8,66978	2.23384 8.61985

16.4 4.8 14.8	Yen	16 e		1586.6 166.63 6.4199
16,8 14,8	Spanish Pta. Swedish Kr., Swizs Fr.,,,,	812	9,28527	128,27 6,6196 1,8377
index	CS/60R rate		109.349 arch 15: u	87,788 navailabl

	*C\$/60R rate	er M	erch 15: u	navailable
egere ndex	Greek Dr'ch	5013	109,349	87,7882
	8wiss Fr	4	9.20527	1,83778
4,8	Swedish Kr.	810		6.61966
6.8	Norwen Kr.	8	7.99106 N/A	6.41994 128.271
4.8	Yen		638,600	166.636
6.4	Lira ,	16	1762.96	1586.66
.6	French Fr	61-	8.56278	6.88839

				1:
utch Guild	Italian Lira	Canada Dollar	Belgian Fran	1
4,288	6355.	1.837	77.70	
8,963	1687.	2.270	55.71	
1.126	619.6	0.484	20.46	
13.18	72e1.	5.686	237.8	
3.667	2012.	1,571	66,45	
1,375	754.8	0,589	84,86	
1,	548,8	e.428	18,18	1

B :Iglan Frana 100	1.287			1,887	480,5	16,05	4.012				8.364	100,
EURO-CURR	ENCY IN	NTERES	T RATE	S (Mai	ket clo	sing ra	tes)					
Mar.16	Sterling	U.S. Dollar	Canadian Dollar	Outob Guilder	Swise Franc	D-mark	French Franc	italian Lira	Balgian Conv.	Franc Fin.	Yen	Danish Kroner
Short term	858-854 858-854 814-813	878-1018 978-1018	812-10 854-10 815-10-4	514-558 618-614	6-214 8-81 ₈	514-518 512-518 6-3-560	121g-1654 186g-1278 145g-145g	164-164 164-174 164-17		1112-16 1134-12 1134-12	6%-6% 6%-6%	1048-1076 11-114 107112

7 days' notice Month Three months Six months	816-813 814-819 814-913	10-1014 1014-1618 16-3-1013 11-1114	8½·10½ 10½·10½ 10½·10¼ 10½·11½	61g-614 81g-614 613-616 612-65g	3 15 3 16 3 16 3 16 3 3 4 - 3 76 4 16 4 16	512.516 616.568 616.538 614.616 614.618	143g-145g 1534-16 157g-151g 167g-161g	1612-17 1678-1736 1714-1754 1754-1814	1614-1354 16-1612 1812-13 1214-1854	1154-12 1154-12 1154-18 1154-18	614-614 614-614 614-614 816-614	1076-11 2076-22 1078-11 114-11	ig ig
Asian \$ (closin	g retes in Si	ingapore). S	hort-term 10	-10 ⁴ , per ce	nt: 58ven da	ye 10-104	per cent; c	one menth	10 ¹ e-10 ⁵ e per	cent; three	menths 1	0½-10½ pe	ır

ne year	84-84	11-114 10湯	11 612 668	416-416 616-616	1676-1618	1754-1814 1	24-184 114-18	8 6 6 114-115
Asian & (closing	retes in Sing	apore). Short-ter	m 10-10 ⁴ per ce	nt: 58ven days 10-10	Pa per cent: o	ne menth 104-	10% per cent; three	menths 10%-10% per
cent; eix months 102	30-10 ²³ per	cent: one year 11	11 per cent.	Long-term Eurodollar	a two years 11	1-11% per cent	three years 121-121	par cent; four years natice.
124-124 per cent; nve	e years 12-2-1	54 ber ceur neun	nai closing rates	. Quest-setus Lesse Bu	call for U.S. o	gelists and habo	bueza Adul two gaha	netice.

20-YEAR 12% NOTIONAL GILT £50,000 32nds of 100% ## 100 SERT. DEPOSIT (IMM) Sim points of 100% THREE-MONTH EURODOLLAR (IMM) STERLING (IMME), Se per E First Nat. Fin. Corp. 11 % ... First Nat. Secs. Ltd. 101% ; Robert Fraser 91% ; GNMA (CBT) 6% \$100,000 32nds of 100% JAPANESE YEN Y12.5m \$ per Y100 ne 24 (28) pus day's open int. 187 (194) WEEKLY CHANGE IN WORLD INTEREST RATES Mar.16 |chang FRANKFURT PARIS 6.40626 6.28128 BRUSSELS One month AMSTERDAM One month Three month eustin-One month Three month

CHICAGO

Close High Low Prev U.S. TREASURY BILLS (HAM) SIM 91.20 91.25 91.20 91.20 91.20 91.20 91.00 91.03 91.00 90.99 90.79 90.82 90.64 90.64 90.64 90.62 June 90.50 90.69 90.64 90.62 June 90.50 90.99 Previous day's open int. 8.857 (6,709) 90.65 89.50 89.64 89.50 90.65 90.

U.S. TREASURY BONDS (CRT) 8% \$100,00 32nds of 100%

Close High 67-07 68-02 66-18 67-13 68-00 65-26 65-17 68-11 65-03 65-31 64-23 65-15 64-12 65-04 64-02 64-24

BASE LENDING RATES 81% Heritable & Gen. Trust 81% Hill Samuel 81% C. Hoare & Co. A.B.N. Bank Allied Irish Bank Amro Bank Henry Ausbacher Armeo Trust Ltd. Associates Cap. Corp. 93% Knowsley & Go Ltd. Lloyds Bank Mallinhall Limited Edward Manson & Co. Meghraj and Sons Ltd. Midland Bank Banco de Bilbao Bank Hapoatim BM ... BCC1 Bank of Cyprus Bank of India Morgan Grenfell National Bk. of Ruwait National Girobank National Westminster Bank of India Bank of Scotland Banque Beige Ltd. Banque du Rhone Barclays Bank Beneficial Trust Ltd. Bremar Holdings Ltd. Brit. Bank of Mid. East Brown Shipley Netional Westminster Norwich Gen. Tst. R. Raphael & Sons. P. S. Refson & Co. Roxburghe Guarantee Royal Trust Co. Canada I Henry Schröder Wagg Standard Chartered Trade Dev. Bank TCB Trustee Savings Bank United Bank of Kuwait United Marahi Bank Volkskas Intol. Dtd. CL Bank Nederland ... Canada Perm't Trust... Castle Court Trust Ltd. Cayzer Ltd. Cedar Holdings Charterhouse Japhet... Choulartons 101% Citibank Savings 1104% Clydesdale Bank 81% C. E. Coates 94% Comm. Bk. of N. East 81% Consolidated Credits 9 % Cooperative Bank 81% The Cyprus Popular Bk. 81% Volkskas Intol Lid. Westpac Banking Corp. Whiteaway Laidlaw Williams & Glyn's Wintrost Sees, Ltd. Yerkshire Bank E T Trust Exeter Trust Ltd.

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